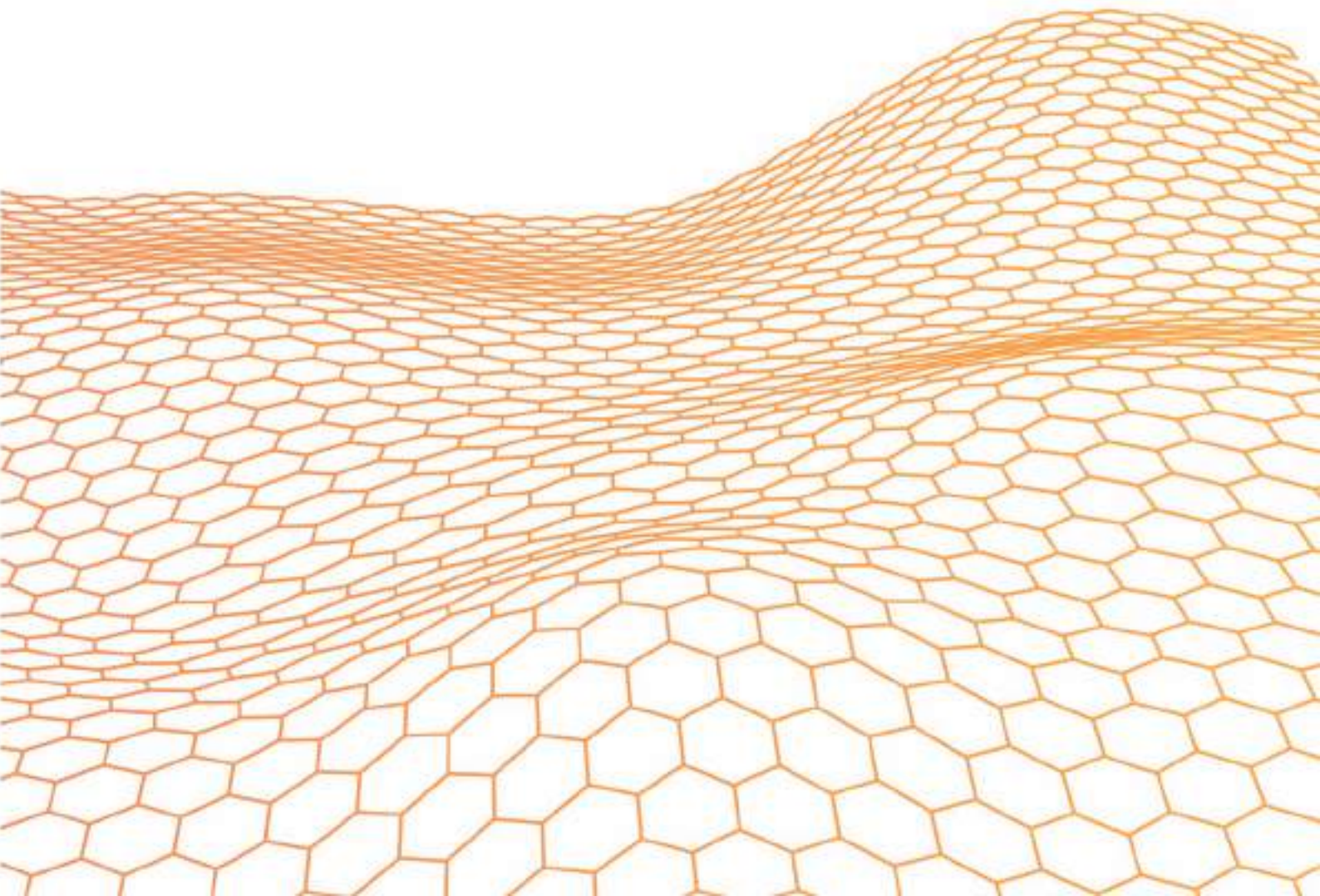


电源 · 运放 · 连接器 技术手册

Power Modules • Op-Amps • Connectors
Technical Manual





**YUEYANG
ELECTRONICS**

企业简介

西安悦扬电子科技有限公司（简称：西安悦扬）创立于2021年，注册资金1000万元，位于西安市曲江新区雁展路莱安中心，是国内专业电子元器件代理经销商，也是专注数据存储技术研发的科技企业。

我们采用“代理经销+自主研发”双轮模式，一方面深耕电子元器件代理经销，搭建稳定供应链；另一方面聚焦数据存储技术研发，打造元器件供应至方案落地的全链条服务。

配备专业研发团队，深耕电子与数据存储领域，自主研发产品涵盖电源模块、运算放大器、微晶片电源、定制化电源、连接器等品类，适配客户个性化需求。

可按需定制数据存储一体化解决方案，产品与服务广泛应用于AI服务器、消费电子、汽车电子、物联网设备等核心领域。

我们坚守品质与诚信原则，凭借完善的供应链、硬核研发力与贴心服务，已为数以百计的国内工业客户、研究机构提供优质服务，积攒了良好的行业口碑。

未来，公司将持续深耕核心领域，强化研发、优化服务、拓展布局，致力成为国内电子科技行业极具竞争力的标杆企业，赋能合作伙伴与行业发展。

Company Profile

Company Profile of Xi' an Yueyang Electronic Technology Co., Ltd. Founded in 2021 with a registered capital of 10 million RMB, Xi' an Yueyang Electronic Technology Co., Ltd. (referred to as Xi' an Yueyang) is located in Laian Center, Yanzhan Road, Qujiang New District, Xi' an. It is a professional domestic distributor of electronic components and a technology enterprise dedicated to the R&D of data storage technologies.

We adopt a two-wheel-driven development model of “distribution + independent R&D”. On one hand, we focus on the distribution of electronic components and build a stable supply chain; on the other hand, we concentrate on the R&D of data storage technologies, providing a full-chain service ranging from component supply to solution implementation.

Equipped with a professional R&D team, we have long been engaged in the electronics and data storage sectors. Our independently developed products cover power modules, operational amplifiers, microchip power supplies, customized power supplies, connectors and other categories, which can meet customers' personalized demands.

We can customize integrated data storage solutions as required, and our products and services are widely applied in core fields such as AI servers, consumer electronics, automotive electronics and Internet of Things (IoT) devices.

Adhering to the principles of quality and integrity, we have provided high-quality services to hundreds of domestic industrial customers and research institutions relying on our sound supply chain, robust R&D capabilities and attentive services, earning a sound reputation in the industry.

In the future, the company will continue to deepen its presence in core sectors, strengthen R&D investment, optimize services and expand business layout. We are committed to becoming a highly competitive benchmark enterprise in the domestic electronic technology industry, empowering our partners and promoting the development of the industry.

产品手册 目录

◆ 标准电源模块

国产化ERM系列DC/DC隔离型电源模块	1
国产化ERK系列DC/DC隔离型电源模块	6
低压DC/DC 模块—1/32 砖40W 系列	10
低压DC/DC 模块—1/16 砖150W 系列	11
低压DC/DC 模块—1/8 砖350W 系列	12
低压DC/DC 模块—1/4 砖500W 系列	13
低压DC/DC 模块—1/2 砖800W 系列	14
高压DC/DC 模块—全砖540V 系列	15
单相AC/DC 模块—1/2 砖500W 系列	16

◆ 微晶片电源

YSPI28H 系列	17
YSDCM270AC系列	18
YSPRM28F 系列	19
YSVTM48F 系列	20
YSBCM384WEC 系列	21
YSDCM270AFL系列	22
YSDCM300AFL系列	23

◆ 嵌入式电源

砖式电源 (AC-DC模块)	24
砖式电源 (DC-DC模块)	25
芯片级别电源 (PSIP模块)	26
服务器及通信电源模块	27

◆ VPX 电源 (定制国产化电源组件)

28-29

◆ 运算放大器

YS620	30
YS400	31
YS8032	32
YS8042	33
YS8138	34
YS8139	35

Product Manual

Table of Contents

◆ Standard power module

Domestic ERM Series DC/DC Isolated Power Module	36
National Domestic ERK Series DC/DC Isolated Power Module	41
Low Voltage DC/DC Module — 1/32 Brick 40W Series	45
Low Voltage DC/DC Module — 1/16 Brick 150W Series	46
Low Voltage DC/DC Module — 1/8 Brick 350W Series	47
Low Voltage DC/DC Module — 1/4 Brick 500W Series	48
Low Voltage DC/DC Module — 1/2 Brick 800W Series	49
High-voltage DC/DC module — All Brick 540V Series	50
Single-phase AC/DC module — 1/2 brick 500W Series	51

◆ Microchip Power Supply

YSPI28H Series	52
YSDCM270AC Series	53
YSPRM28F Series	54
YSVTM48F Series	55
YSBCM384WEC Series	56
YSDCM270AFL Series	57
YSDCM300AFL Series	58

◆ Embedded power supply

General-Purpose Power Supply Module	59
Servr and Communication Power Module	60
Chip-level power supply (PSIP module)	61
Server and communication power modules	62

◆ VPX Sourcc (Custom-Made Localized Power Supply Components) 63-64

◆ Operational Amplifier

YS620	65
YS400	66
YS8032	67
YS8042	68
YS8138	69
YS8139	70

◆ Connector

board-to-board connector	71-73
Wire-to-board connector	74-77
Surface-mount board-to-board connector	78-79

国产化ERM系列

DC/DC隔离型电源模块

ERM系列电源模块为100%国产化隔离DC/DC变换器，
采用五面金属外壳封装，双列直插安装方式。
产品具有体积小，效率高，功率密度高等优点。

电气特性 ($T_A=25^{\circ}\text{C}$)

主要特性	特性	最小值	典型值	最大值	单位	备注
● 隔离输出 ● 高效率 ● 低纹波 ● 五面金属封装 ● 固定开关频率 ● 产品尺寸小 ● 输入欠压保护 ● 输出过流保护 ● 输出短路保护 ● 使能控制功能 ● 无最小负载要求 ● 100%国产化	输入电压范围	4.5	5.0	9	VDC	5系列
		9	28	40	VDC	18系列
		16	28	40	VDC	28系列
	输入欠压保护	3.75	/	4.5	VDC	5系列，半载
		7	/	9	VDC	18系列，半载
		13	/	16	VDC	28系列，半载
	输入浪涌电压	/	/	50	VDC	18/28系列，100ms，满载
	输出电压精度	-1.0	0.5	+1.0	%VO	满载
	电压调整率	-1.0	/	+1.0	%VO	全温度，全电压，满载
	电流调整率	-2.0	/	+2.0	%VO	全温度，全电压， 全负载，双路平衡带载
	启动时间	/	4	/	ms	满载，开机 到输出电压上升至10%的时间
	输出动态超调	-5.0	/	+5.0	%Vo	25%-50%-25%、 50%-75%-50%， di/dt=0.1A/us
	输出动态恢复时间		/	500	us	
	输出过流保护	110	/	/	%Io	打嗝模式，过流解除后自恢复
	输出短路保护	-	-	-	-	打嗝模式，短路解除后自恢复
主要应用领域	其他特性					
● 航天航空 ● 车载系统 ● 机载设备	开关频率	/	300	/	kHz	
	温漂系数	-0.02	/	+0.02	%/°C	
	使能控制电平 (正逻辑)	-0.3	/	0.7	VDC	低电平，无输出
		3.5	/	12	VDC	悬空或接高电平，有输出
	绝缘电阻 (500VDC)	100	/	/	MΩ	输入、输出、外壳两两之间，500VDC
	隔离耐压	/	/	1000	V	输入对输出，上升速率 500V/s，1min，漏电流≤3.5mA， 无飞弧，无击穿
	工作温度	-55	/	105	°C	壳温
	储存温度	-55	/	125	°C	环温

命名规则

系列简称	输入电压	输出路数	输出电压	温度等级	输出功率	逻辑类型	安装类型
ERM	28	S	05	M	5	P	S
ERM: 标准电源模块 12.7*12.7* 10.8mm	5:4.5-9V 18:9-40V 28:16-40V	S:单路 D:双路	3V3:3.3V 05:5V 06:6V 28:28V	M:企军级 -55℃~105℃ T:工业级 -40℃~85℃	3:3W 5:5W	P: 正逻辑	S:普通型

外形尺寸及引出端定义

外形尺寸应符合尺寸图的规定(单位 mm)，图中未注公差尺寸为 ± 0.25 mm。

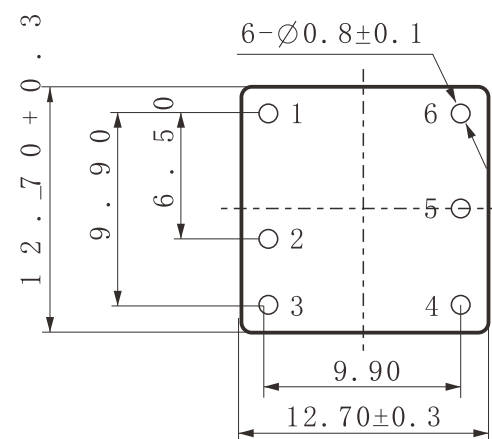
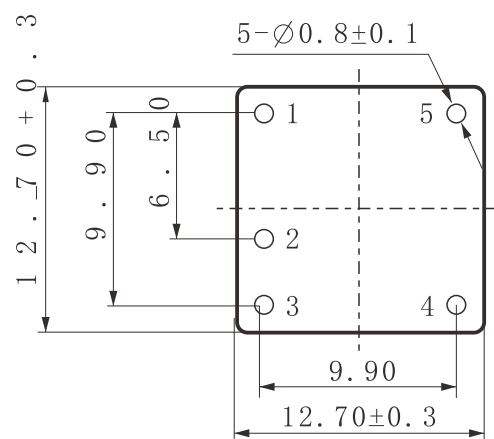
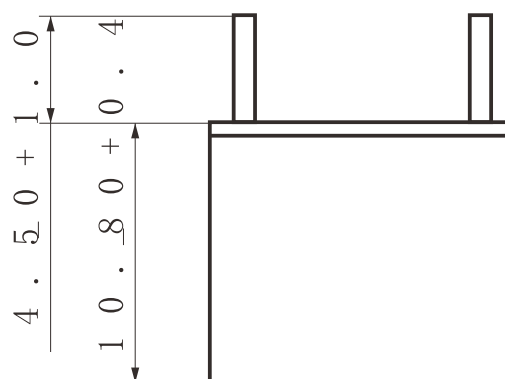
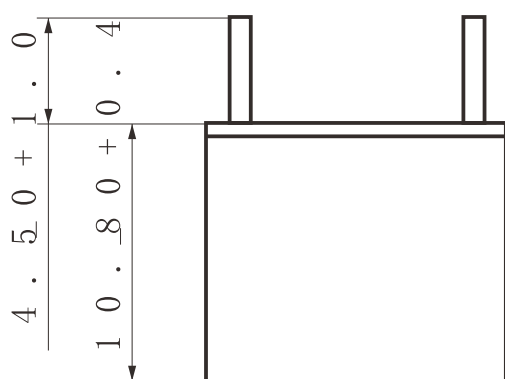


图1 单路 (S) 重量5g, 引出脚向上

图2 双路 (D) 重量5g, 引出脚向上

18/28系列引出脚定义					
单路 (S)			双路 (D)		
引出端序号	定义	功能	引出端序号	定义	功能
1	+Vin	输入正端	1	+Vin	输入正端
2	-Vin	输入负端	2	-Vin	输入负端
3	ENA	使能控制端	3	ENA	使能控制端
4	-Vout	输出负端	4	-Vout	输出负端
5	+Vout	输出正端	5	COM	输出地端
			6	+Vout	输出正端

产品型号列表

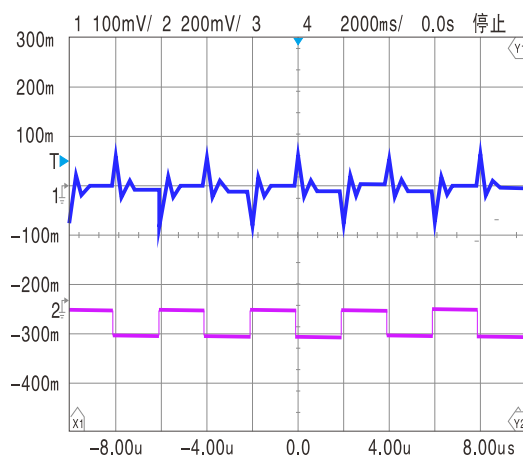
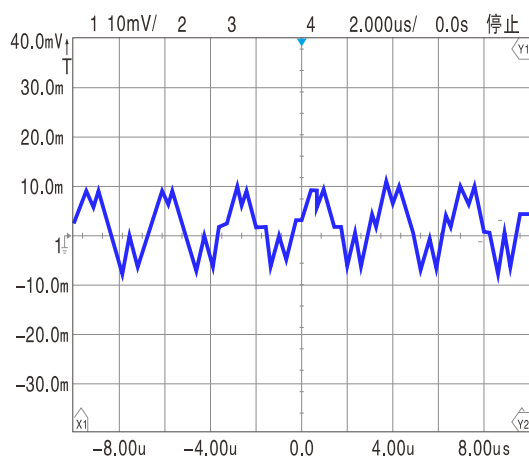
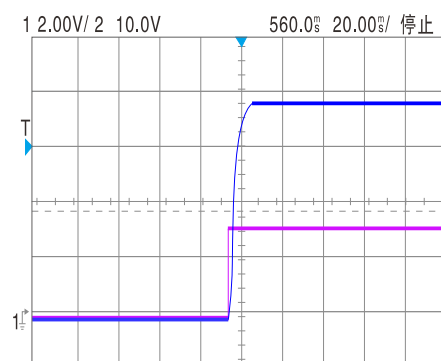
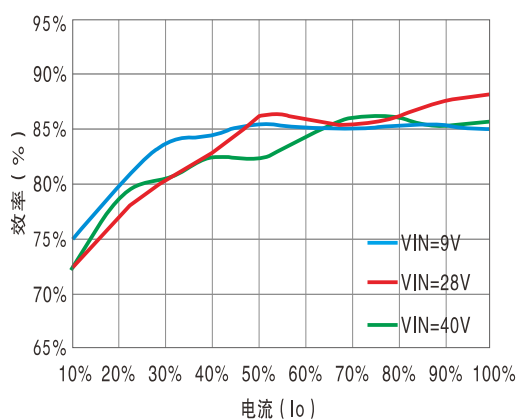
型号	输入电压 (V)	输出电压 (V)	输出电流 (A)	效率 (典型: %)	容性负载 (μ F)	纹波 (典型: mVpp)	ZZKK等级
4.5V-9V输入(3W)							
YSERM05S3V3M3PS	4.5-9	3.3	0.91	76	470	30	C
YSERM05S05M3PS	4.5-9	5	0.6	82	220	30	C
YSERM05S06M3PS	4.5-9	6	0.5	82	220	20	C
YSERM05S09M3PS	4.5-9	9	0.33	83	150	30	C
YSERM05S12M3PS	4.5-9	12	0.25	84	150	30	C
YSERM05S15M3PS	4.5-9	15	0.2	85	100	30	C
YSERM05S24M3PS	4.5-9	24	0.13	84	100	40	C
YSERM05S28M3PS	4.5-9	28	0.11	84	47	40	C
YSERM05D05M3PS	4.5-9	± 5	0.3	80	150	30	C
YSERM05D12M3PS	4.5-9	± 12	0.13	84	47	30	C
YSERM05D15M3PS	4.5-9	± 15	0.1	84	47	30	C

9V-40V输入(5W)							
YSERM18S3V3M5PS	9-40	3.3	1.5	78	330	40	C
YSERM18S05M5PS	9-40	5	1	82	330	40	C
YSERM18S06M5PS	9-40	6	0.83	84	330	40	C
YSERM18S09M5PS	9-40	9	0.56	84	220	30	C
YSERM18S12M5PS	9-40	12	0.42	86	220	30	C
YSERM18S15M5PS	9-40	15	0.33	85	220	30	C
YSERM18S24M5PS	9-40	24	0.21	86	100	40	C
YSERM18S28M5PS	9-40	28	0.18	84	100	40	C
YSERM18D05M5PS	9-40	± 5	0.5	80	220	40	C
YSERM18D12M5PS	9-40	± 12	0.21	83	100	40	C
YSERM18D15M5PS	9-40	± 15	0.17	83	100	40	C
16V-40V输入(5W)							
YSERM28S3V3M5PS	16-40	3.3	1.5	78	470	40	C
YSERM28S05M5PS	16-40	5	1	82	470	40	C
YSERM28S06M5PS	16-40	6	0.83	84	470	40	C
YSERM28S09M5PS	16-40	9	0.56	85	220	30	C
YSERM28S12M5PS	16-40	12	0.42	86	220	30	C
YSERM28S15M5PS	16-40	15	0.33	86	220	30	C
YSERM28S24M5PS	16-40	24	0.21	86	100	40	C
YSERM28S28M5PS	16-40	28	0.18	85	100	40	C
YSERM28D05M5PS	16-40	± 5	0.5	80	220	40	C
YSERM28D12M5PS	16-40	± 12	0.21	83	100	40	C
YSERM28D15M5PS	16-40	± 15	0.17	83	100	40	C

注1: 手册中性能参数为典型值, 具体参数及质量保证规定请以本公司提供的产品详细规范或规格书为准。

注2: 型号列表中仅列出典型型号, 可根据客户具体指标定制。

电气特性曲线图（例：YSERM18S12M5PS T）



典型应用 见《电源模块应用指导》第2条，图2所示。

全国产化ERK系列

DC/DC隔离型电源模块

ERK系列电源模块为100%国产化隔离DC/DC变换器，
采用五面金属外壳封装，双列直插安装方式。
产品具有体积小，效率高，功率密度高等优点。

电气特性 ($T_A=25^{\circ}\text{C}$)

主要特性	特性	最小值	典型值	最大值	单位	备注
● 隔离输出 ● 高效率低纹波 ● 五面金属封装 ● 固定开关频率 ● 产品尺寸小 ● 输入欠压保护 ● 输出过流保护 ● 输出短路保护 ● 输出电压调整 ● 使能控制功能 ● 无最小负载要求 ● 100%国产化	输入电压范围	9	28	40	VDC	18系列
		16	28	40	VDC	28系列
		16	48	75	VDC	48系列
	输入欠压保护	7	/	9	VDC	18系列，半载
		13	/	16	VDC	28/48系列，半载
	输入浪涌电压	/	/	50	VDC	18/28系列，100mS，满载
	输出电压精度	-1.0	0.5	+1.0	%VO	满载
	电压调整率	-1.0	/	+1.0	%VO	全温度，全电压，满载
	电流调整率	-2.0	/	+2.0	%VO	全温度，全电压， 全负载，双路平衡带载
	启动时间	/	5	/	ms	满载 开机到输出电压上升至10%的时间
	纹波	-	-	80	mVpp	带宽20mHz,输出接0.1uF 电容靠测，满载，参考型号列表
	输出电压调整	-10	-	10	%VO	$I_o \leq$ 额定输出电流， 且 $P_o \leq$ 额定功率
	输出动态超调	-5.0	/	+5.0	%VO	25%-50%-25%、 50%-75%-50%，di/dt=0.1A/us
	输出动态恢复时间		/	500	us	
	输出过流保护	110	/	/	%Io	打嗝模式，过流解除后自恢复
	输出短路保护	-	-	-	-	打嗝模式，短路解除后自恢复
主要应用领域	其他特性					
● 航天航空 ● 车载系统 ● 机载设备	开关频率	/	300	/	kHz	
	温漂系数	-0.02	/	+0.02	%/°C	
	使能控制电平 (正逻辑)	-0.3	/	0.7	VDC	低电平，无输出
		3.5	/	12	VDC	悬空或接高电平，有输出
	绝缘电阻 (500VDC)	100	/	/	MΩ	输入、输出、外壳两两之间，500VDC
	隔离耐压	/	/	1500	V	输入对输出，上升速率500V/s，1min，漏电流 $\leq$ 3.5mA， 无飞弧，无击穿
	工作温度	-55	/	105	°C	壳温
	储存温度	-55	/	125	°C	环温

命名规则

系列简称	输入电压	输出路数	输出电压	温度等级	输出功率	逻辑类型	安装类型
ERK	28	S	05	M	10	P	S
ERK: 标准电源模块 25.4*12.7* 10.8mm	18:9-40V 28:16-40V 48:16-75V	S:单路 D:双路	3V3:3.3V 05:5V 12:12V 28:28V	M:企军级 -55℃~105℃ T:工业级 -40℃~85℃	10:10W 15:15W	P: 正逻辑	S:普通型 P:加固型

外形尺寸及引出端定义

外形尺寸应符合尺寸图的规定(单位 mm)，图中未注公差尺寸为 ± 0.25 mm。

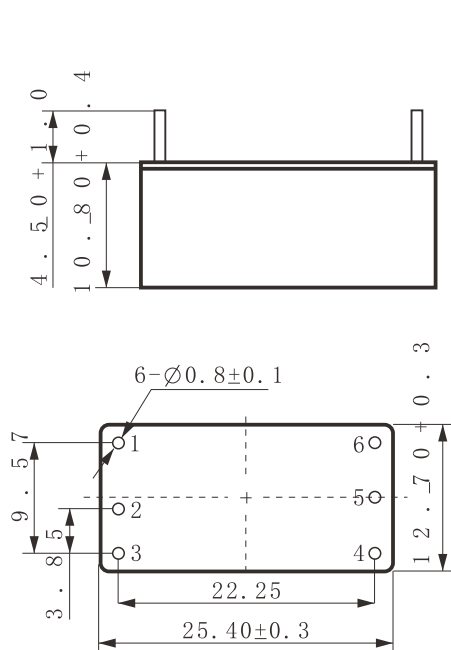


图1 S型（普通型）重量11g，引出脚向上

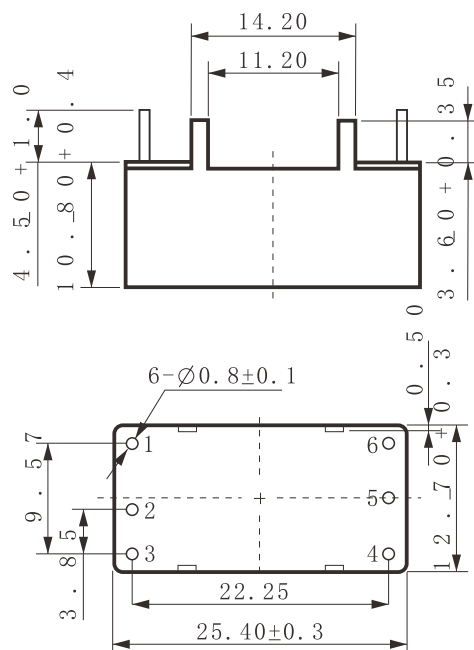


图2 P型（加固型）重量11.5g，引出脚向上

18/28/48系列引出脚定义					
单路 (S)			双路 (D)		
引出端序号	定义	功能	引出端序号	定义	功能
1	+Vin	输入正端	1	+Vin	输入正端
2	-Vin	输入负端	2	-Vin	输入负端
3	ENA	使能控制端	3	ENA	使能控制端

18/28/48系列引出脚定义					
单路 (S)			双路 (D)		
4	-Vout	输出负端	4	-Vout	输出负端
5	Trim	输出电压调整端	5	COM	输出地端
6	+Vout	输出正端	6	+Vout	输出正端

产品型号列表

型号	输入电压 (V)	输出电压 (V)	输出电流 (A)	效率 (典型: %)	容性负载 (μ F)	纹波 (典型: mV _{pp})	ZZKK等级
9V-40V输入 10W							
YSERK18S3V3M10PS	9-40	3.3	3	79	470	40	B
YSERK18S05M10PS	9-40	5	2	82	470	30	B
YSERK18S06M10PS	9-40	6	1.67	85	470	30	B
YSERK18S09M10PS	9-40	9	1.12	86	220	30	B
YSERK18S12M10PS	9-40	12	0.84	86	220	30	B
YSERK18S15M10PS	9-40	15	0.67	86	220	30	B
YSERK18S24M10PS	9-40	24	0.42	88	220	40	B
YSERK18S28M10PS	9-40	28	0.36	89	220	40	B
YSERK18D05M10PS	9-40	± 5	1	82	470	40	B
YSERK18D12M10PS	9-40	± 12	0.42	86	220	40	B
YSERK18D15M10PS	9-40	± 15	0.34	85	220	40	B
16-40V输入 15W							
YSERK28S3V3M10PS	16-40	3.3	3	79	470	30	B
YSERK28S05M15PS	16-40	5	3	82	470	30	B
YSERK28S06M15PS	16-40	6	2.5	85	470	30	B
YSERK28S09M15PS	16-40	9	1.67	86	220	30	B
YSERK28S12M15PS	16-40	12	1.25	86	220	30	B
YSERK28S15M15PS	16-40	15	1	87	220	30	B
YSERK28S24M15PS	16-40	24	0.63	88	220	40	B
YSERK28S28M15PS	16-40	28	0.54	89	220	40	B
YSERK28D05M15PS	16-40	± 5	1.5	82	470	40	B
YSERK28D12M15PS	16-40	± 12	0.63	86	220	40	B
YSERK28D15M15PS	16-40	± 15	0.5	86	220	40	B

型号	输入电压 (V)	输出电压 (V)	输出电流 (A)	效率 (典型: %)	容性负载 (μF)	纹波 (典型: mV_{pp})	ZZKK等级
16V-75V输入 (10W)							
YSERK48S05M10PS	16-75	5	2	82	470	30	B
YSERK48S12M10PS	16-75	12	0.83	84	220	40	B

注1: 手册中性能参数为典型值, 具体产品的参数及质量保证规定请以本公司提供的产品详细规范为准。

注2: 手册中仅列出典型型号, 可根据客户具体指标定制。

电气特性曲线图 (例: YSERK28S12M15PS $T_A=25^\circ\text{C}$)

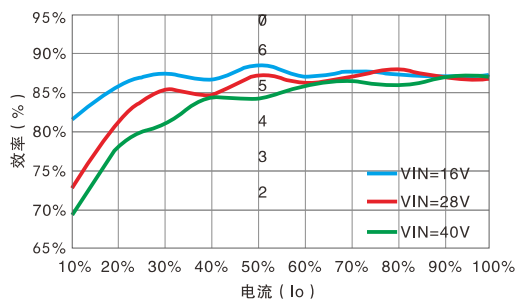


图1 效率曲线图

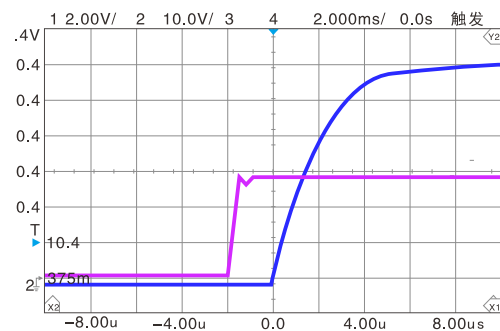


图2 开机波形图

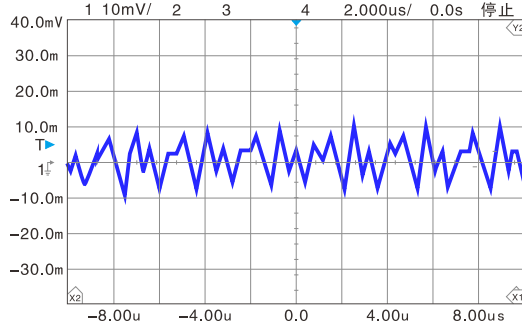


图3 输出纹波和噪声图

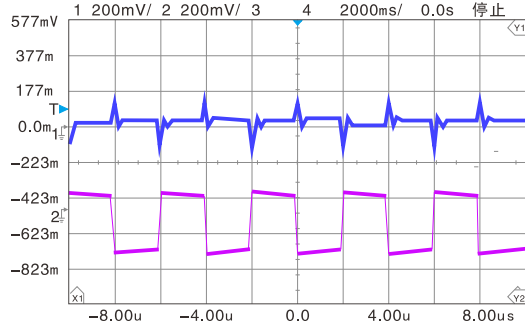


图4 输出动态响应图

典型应用 见《电源模块应用指导》第2条, 图2所示。

低压 DC/DC 模块——1/32 砖 40W 系列

1/32 砖 40W 系列低压 DC/DC 模块电源，封装采用五面金属外壳，灌胶密封工艺，直插式引出端子；具有高可靠性、高效率、高功率密度、低纹波噪声等特点；标准 1/32 砖尺寸，元器件全国产化，广泛应用于航空、航天等电子及工业控制领域。

产品特点

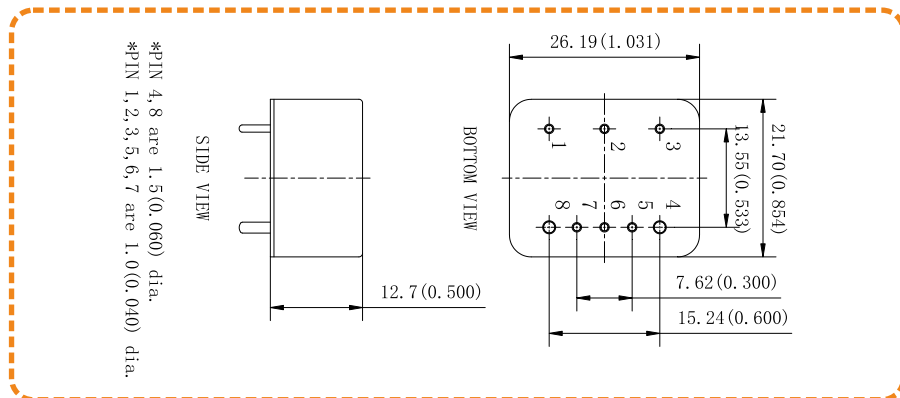
- 输入电压：16~40Vdc
- 转换效率：87%@28Vdc
- REMOTE ON/OFF 功能，正负逻辑控制可选
- 输出过流及短路保护功能
- 输入欠压保护和输出过压保护
- 输入输出隔离电压：1500Vdc
- 工作温度：-55℃~100℃ (M1)
-40℃~100℃ (M3)
- 标准 1/32 砖：26.19×21.70×12.70mm
- 满足 GJB 10164 《微电路模块通用规范》



产品规格

规格型号	输入电压	输出电压	功率	效率	研制进度
YSBD28040xx05TNx2	16-40V	5V	40W	84.0%	可供货
YSBD28042xx12TNx2	16-40V	12V	42W	85.0%	可供货
YSBD28042xx28TNx2	16-40V	28V	42W	87.0%	可供货

外型尺寸



低压 DC/DC 模块——1/16 砖 150W 系列

1/16 砖 150W 系列低压 DC/DC 模块电源，封装采用五面金属外壳，灌胶密封工艺，直插式引出端子；具有高可靠性、高效率、高功率密度、低纹波噪声等特点；标准 1/16 砖尺寸，元器件国产化，广泛应用于航空、航天等电子及工业控制领域。

产品特点

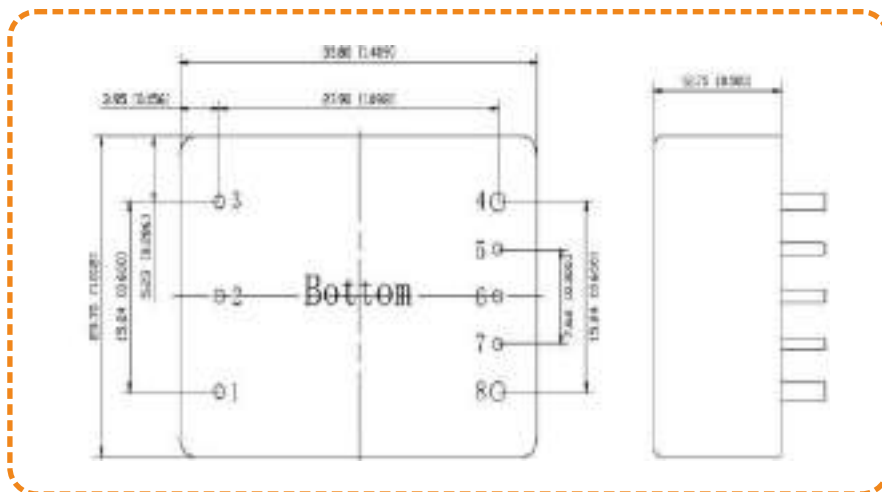
- 输入电压：16~40Vdc
- 转换效率：90%@28Vdc
- REMOTE ON/OFF 功能，正负逻辑控制可选
- 输出过流及短路保护功能
- 输入欠压保护和输出过压保护
- 输入输出隔离电压：2250Vdc
- 工作温度：-55℃~100℃ (M1)
-40℃~100℃ (M3)
- 标准 1/16 砖：36.00×26.20×12.70mm
- 满足 GJB 10164 《微电路模块通用规范》



产品规格

规格型号	输入电压	输出电压	功率	效率	研制进度
YSBD28150xx05SNx2	16-40V	5V	150W	90.0%	研发中
YSBD28150xx12SNx2	16-40V	12V	150W	91.0%	可供货
YSBD28150xx28SNx2	16-40V	28V	150W	90.0%	可供货

外型尺寸



低压 DC/DC 模块——1/8 砖 350W 系列

1/8 砖 350W 系列低压 DC/DC 高功率密度模块电源，封装采用五面金属外壳，灌胶密封工艺，直插式引出端子；具有高可靠性、高效率、高功率密度、低纹波噪声等特点；标准 1/8 砖尺寸，元器件全国产化，广泛应用于航空、航天等电子及工业控制领域。

产品特点

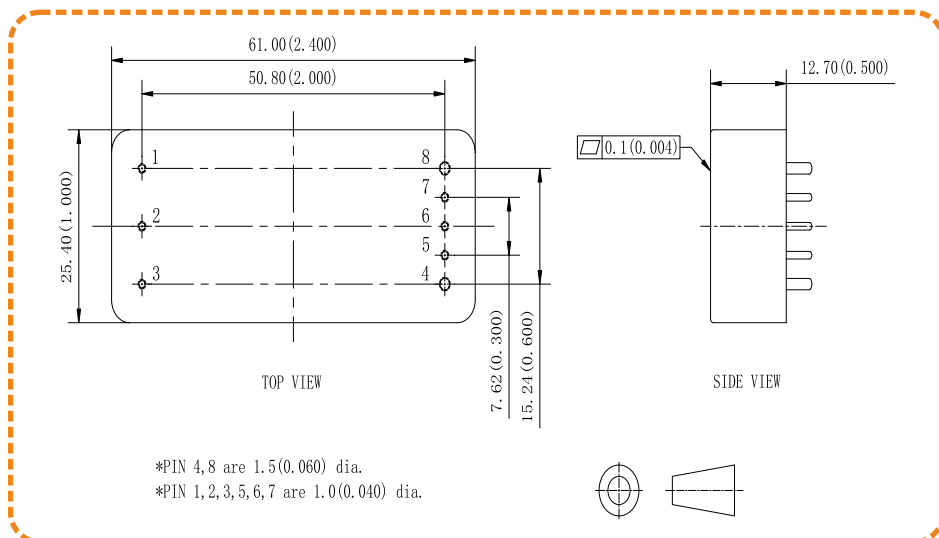
- 输入电压：16~40Vdc
- 转换效率：92%@28Vdc
- REMOTE ON/OFF 功能，正负逻辑控制可选
- 输出过流及短路保护功能
- 输入欠压保护和输出过压保护
- 输入输出隔离电压：2250Vdc
- 工作温度：-55℃~100℃ (M1)
-40℃~100℃ (M3)
- 标准 1/8 砖：61.00×25.40×12.70mm
- 满足 GJB 10164 《微电路模块通用规范》



产品规格

规格型号	输入电压	输出电压	功率	效率	研制进度
YSBD28350xx05ENx2	16-40V	12V	350W	92.0%	可供货
YSBD28350xx24ENx2	16-40V	24V	350W	92.0%	可供货
YSBD28350xx12ENx2	16-40V	28V	350W	92.0%	可供货

外型尺寸



低压 DC/DC 模块——1/4 砖 500W 系列

1/4 砖 500W 系列低压 DC/DC 模块电源，封装采用五面金属外壳，灌胶密封工艺，直插式引出端子；具有高可靠性、高效率、高功率密度、低纹波噪声等特点；标准 1/4 砖尺寸，元器件全国产化，广泛应用于航空、航天等电子及工业控制领域。

产品特点

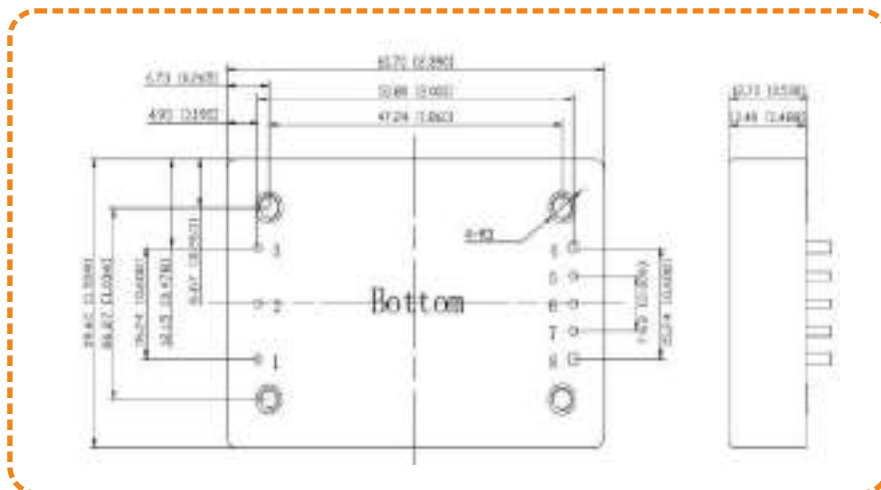
- 输入电压：16~40Vdc
- 转换效率：92%@28Vdc
- REMOTE ON/OFF 功能，正负逻辑控制可选
- 输出过流及短路保护功能
- 输入欠压保护和输出过压保护
- 输入输出隔离电压：2250Vdc
- 工作温度：-55℃~100℃ (M1)
-40℃~100℃ (M3)
- 标准 1/4 砖：60.70×39.60×12.70mm
- 满足 GJB 10164《微电路模块通用规范》



产品规格

规格型号	输入电压	输出电压	功率	效率	研制进度
YSBD28500xx12QNx2	16-40V	12V	500W	93.0%	可供货
YSBD28500xx24QNx2	16-40V	24V	500W	92.0%	研发中
YSBD28500xx28QNx2	16-40V	28V	500W	92.0%	研发中

外型尺寸



低压 DC/DC 模块——1/2 砖 800W 系列

1/2 砖 800W 系列低压 DC/DC 模块电源，封装采用五面金属外壳，灌胶密封工艺，直插式引出端子；具有高可靠性、高效率、高功率密度、低纹波噪声等特点；标准 1/2 砖尺寸，元器件全国产化，广泛应用于航空、航天等电子及工业控制领域。

产品特点

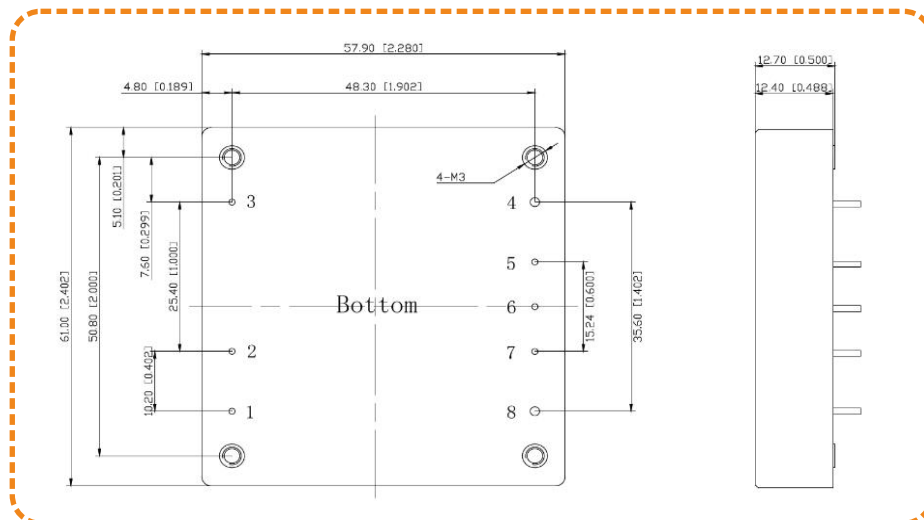
- 输入电压：16 ~ 40Vdc
- 转换效率：94%@28Vdc
- REMOTE ON/OFF 功能，正负逻辑控制可选
- 输出过流及短路保护功能
- 输入过欠压保护和输出过压保护
- 输入输出隔离电压：2250Vdc
- 工作温度：-55℃~100℃ (M1)
-40℃~100℃ (M3)
- 标准 1/2 砖：61.00×57.90×12.70mm
- 满足 GJB 10164 《微电路模块通用规范》



产品规格

规格型号	输入电压	输出电压	功率	效率	研制进度
YSBD28800xx28HNx2	16-40V	28V	800W	94.0%	研发中

外型尺寸



高压 DC/DC 模块——全砖 540V 系列

全砖 540V 系列高压 DC/DC 高功率密度模块电源，封装采用五面金属外壳，灌胶密封工艺，直插式引出端子；具有高可靠性、高效率、高功率密度、低纹波噪声等特点；标准全砖尺寸，元器件全国产化，广泛应用于航空、航天等电子及工业控制领域。

产品特点

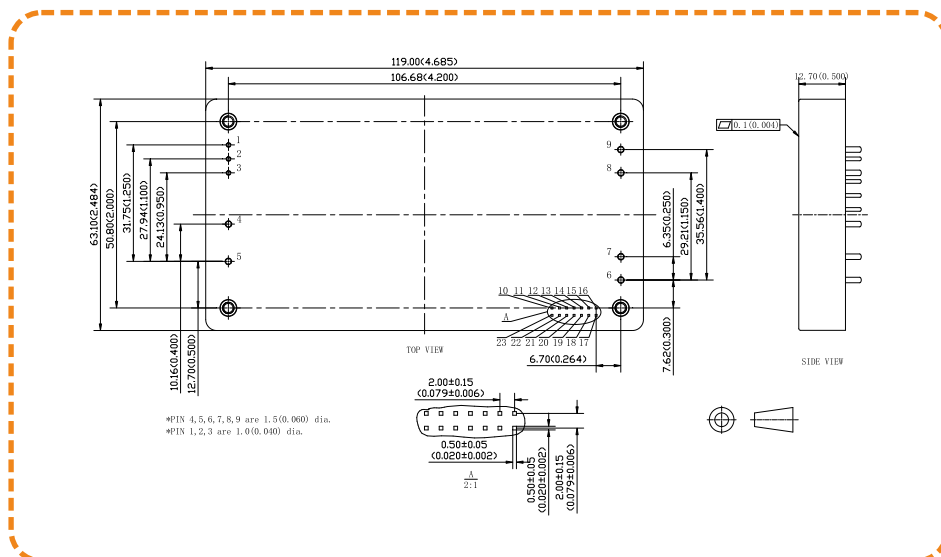
- 输入电压：400 ~ 800Vdc
- 转换效率：95.5%@28Vdc
- REMOTE ON/OFF 功能，正负逻辑控制可选
- 输出过流及短路保护功能
- 输入欠压保护和输出过压保护
- 输入输出隔离电压：3000Vdc
- 工作温度：-55℃~100℃ (M1)
-40℃~100℃ (M3)
- 标准全砖：119.0×63.1×12.70mm
- 满足 GJB 10164 《微电路模块通用规范》



产品规格

规格型号	输入电压	输出电压	功率	效率	研制进度
YSBD5402K0xx28FLx2	400-800V	28V	2000W	95.5%	研发中

外型尺寸



单相 AC/DC 模块——1/2 砖 500W 系列

1/2 砖 500W 系列 AC/DC 砖式电源, 采用先进的数字控制技术, 最高效率达到 93%, 封装采用五面金属外壳, 灌胶密封工艺, 直插式引出端子; 具有高可靠性、高效率、高功率密度、低纹波噪声等特点; 1/2 砖尺寸, 元器件全国产化, 广泛应用于航空电子设备, 地面测试设备, 地面模拟设备。

产品特点

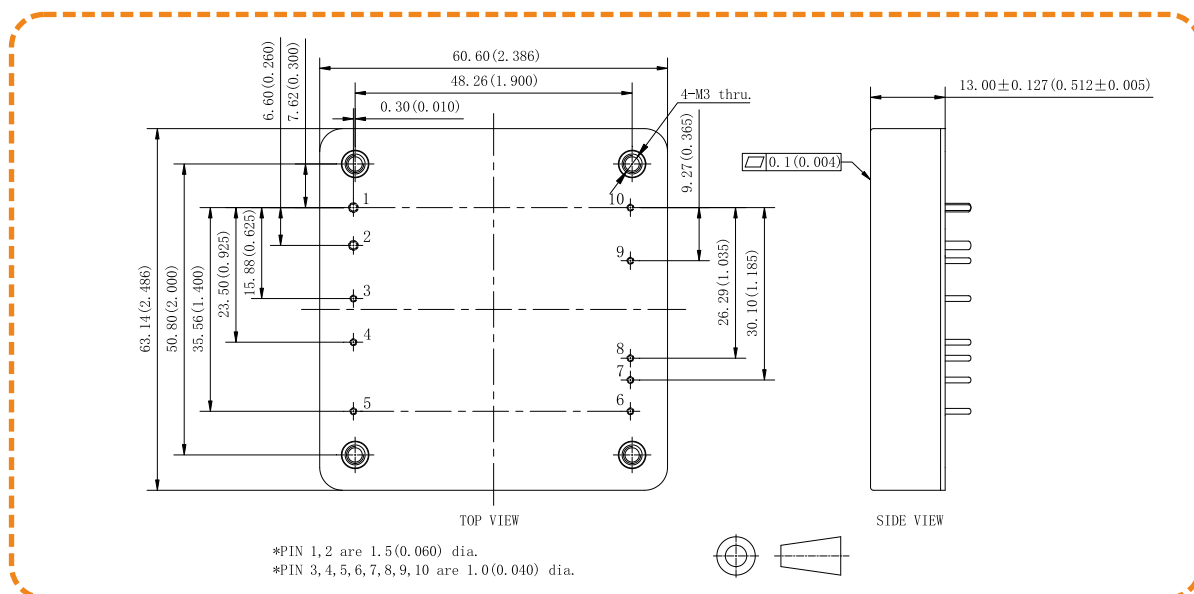
- 隔离稳压
- 输入电压：85~264Vac(单相)
- 输入电压频率范围：47~63Hz
- 输出电压：28V
- 输出功率：500W
- 过欠压、过流、短路和过热保护
- 3000Vac 绝缘耐压（输入对输出）
- 工作温度：-55℃~100℃
- 1/2 砖封装：63.14×60.6×13.00mm
- 满足 GJB 10164《微电路模块通用规范》



产品规格

规格型号	输入电压	输出电压	功率	效率	研制进度
YSB1P220500xx28HLx2	85-264V	28V	500W	93.0%	研发中

外型尺寸



YSPI28H 系列

产品特点

- 隔离稳压
- 超小尺寸封装
- 最高体积功率密度:334W/in³
- 重量:仅7.8g
- 过欠压、过流、短路和过热保护
- 2250Vdc 绝缘耐压
- 工作温度:-55°C~100°C
- HALF CHIP封装:16.5 x 22.0 x 6.73mm
- 满足SJ 20668《微电路模块总规范》



高集成



低EMI



隔离稳压

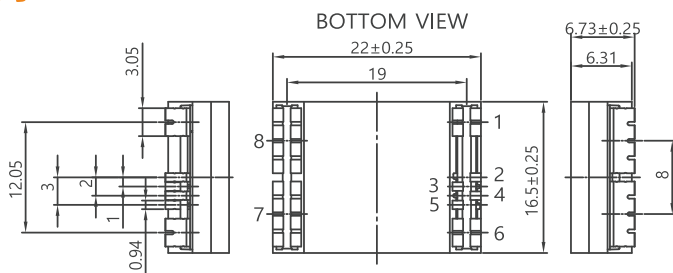


小体积

产品规格

规格型号	输入电压	输出电压	调节范围	输出电流	输出功率	效率	研制进度
YSPI28H3V3M33L	16~50V	3.3V	2.97~3.63V	10A	33W	83.0%	开发中
YSPI28H05M50L	16~50V	5.0V	4.00~5.50V	10A	50W	85.3%	可供货
YSPI28H12M50L	16~50V	12V	9.60~13.2V	4.2A	50W	88.0%	可供货
YSPI28H15M50L	16~50V	15V	12.0~16.5V	3.3A	50W	88.0%	开发中
YSPI28H18M50L	16~50V	18V	14.4~19.8V	2.8A	50W	88.0%	开发中
YSPI28H24M50L	16~50V	24V	22.4~30.8V	2.1A	50W	88.5%	开发中
YSPI28H28M50L	16~50V	28V	22.4~30.8V	1.8A	50W	88.5%	开发中
YSPI28H48M50L	16~50V	48V	36.0~52.8V	1.8A	50W	89.0%	开发中
YSPI28H05M25L	16~50V	5.0V	4.00~5.50V	5.0A	25W	84.5%	可供货
YSPI28H12M25L	16~50V	12V	9.60~13.2V	2.1A	25W	87.0%	可供货

外形尺寸



引脚号	符号	功能
1	+IN	输入正端
2	SGND	信号地
3	TM	温度监测端
4	TRIM	调压端
5	ENABLE	使能端
6	-IN	输入负端
7	-OUT	输出负端
8	+OUT	输出正端

命名规则

YSPI	28	H	12	M	50	L	S	-
系列名称	输入电压	封装代码	输出电压	温度等级	输出功率	插针类型	并联功能	版本代号
隔离稳压 微晶片系列	28:16~50V	H: HALF CHIP	05:5V 12:12V	M: Tc: -55~100°C Ts: -65~100°C H: Tc: -40~100°C Ts: -55~100°C T: Tc: -40~100°C Ts: -40~100°C	50:50W	L: 表贴	P: 支持并联 S: 单机工作	缺省: 标准 01: 其他

YSDCM270AC 系列

产品特点

- 宽输入隔离稳压:160V~420V
- 高体积功率密度:1040W/in³
- 高重量功率密度:17.4W/g
- 重量:仅28g
- 过欠压、过流、短路和过热保护
- 支持8台并联扩容
- 4242Vdc 绝缘耐压
- 工作温度:-55℃~100℃
- CHIP3623封装:47.91 x 22.80 x 7.21mm
- 满足SJ 20668《微电路模块总规范》



高功率



低EMI



可扩展

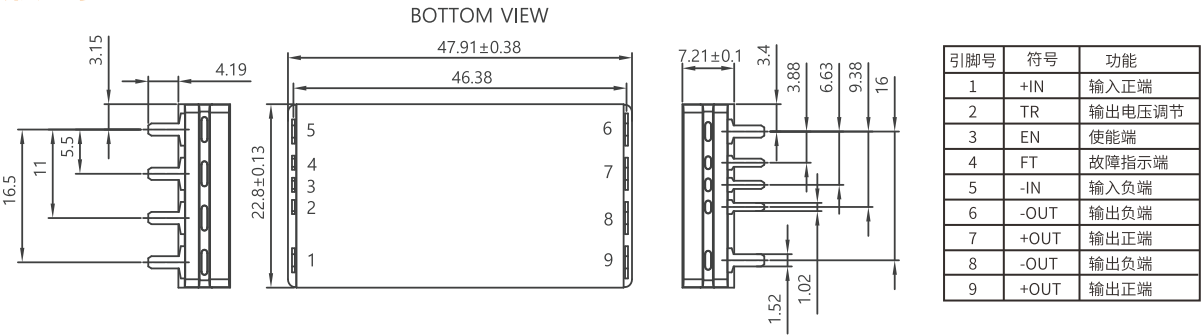


隔离稳压

产品规格

规格型号	输入电压	输出电压	调节范围	输出电流	输出功率	效率	研制进度
YSDCM270AC3V3M150T	160~420V	3.3V	3.0~3.6V	45.46A	150W	87.7%	可供货
YSDCM270AC05M250T	160~420V	5V	4.0~5.5V	50A	250W	89.1%	可供货
YSDCM270AC12M500T	160~420V	12V	7.2~13.2V	41.67A	500W	91.1%	可供货
YSDCM270AC15M500T	160~420V	15V	9.0~16.5V	33.4A	500W	91.8%	可供货
YSDCM270AC24M500T	160~420V	24V	14.4~26.4V	20.84A	500W	92.6%	可供货
YSDCM270AC28M500T	160~420V	28V	16.8~30.8V	17.86A	500W	93.2%	可供货
YSDCM270AC48M500T	160~420V	48V	28.8~52.8V	10.42A	500W	92.0%	开发中

外形尺寸



命名规则

YSDCM	270	AC	12	M	500	T	P	-
系列名称	输入电压	封装代码	输出电压	温度等级	输出功率	插针类型	并联功能	版本代号
隔离稳压 微晶片系列	270:160-420V	AC:CHIP4623	05:5V 12:12V	M: Tc:-55~100℃ Ts:-65~100℃ H: Tc:-40~100℃ Ts:-55~100℃ T: Tc:-40~100℃ Ts:-40~100℃	250:250W 500:500W	T:插装	P:支持并联 S:单机工作	缺省:标准 01:其他

YSPRM28F 系列

产品特点

- 宽输入宽输出
- 最高体积功率密度:1702.7W/in³
- 最高重量功率密度:31.25W/g
- 重量:仅16g
- 过欠压、过流、短路和过热保护
- 支持5台并联扩容
- 级联JVTM组成分比式架构
- 工作温度:-55℃~100℃
- FULL CHIP封装:32.5x 22.0 x 6.73mm
- 满足SJ 20668《微电路模块总规范》



高功率



低EMI



可扩展

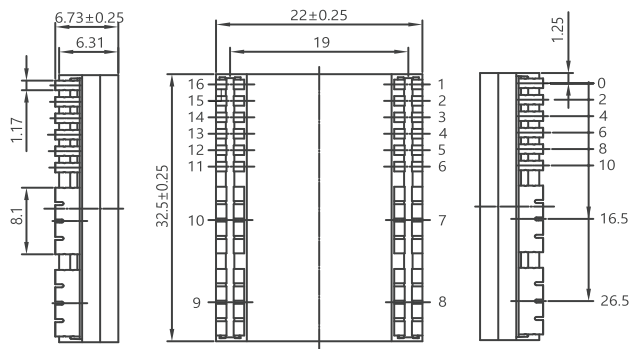


分比构架

产品规格

规格型号	输入电压	输出电压	调节范围	输出电流	输出功率	效率	研制进度
YSPRM28F36M120L	16~50V	36V	26V~50V	3.33A	120W	95.5%	可供货
YSPRM28F36M240L	16~50V	36V	26V~50V	6.66A	240W	95.5%	开发中
YSPRM28F24M500L	20~40V	24V	20V~40V	20.8A	500W	95%	可供货

外形尺寸



YSPRM28F36M120L、YSPRM28F36M240L

引脚号	符号	功能	引脚号	符号	功能
1	VC	VTM控制	9	-OUT	输出负端
2	PC	原边控制端	10	+OUT	输出正端
3	TM	空端	11	CD	电压补偿
4	IL	限流设置	12	NC	空端
5	NC	空端	13	OS	输出电压设置
6	PR	并联控制	14	SG	信号地
7	+IN	输入正端	15	SC	副边控制端
8	-IN	输入负端	16	VH	辅助源

YSPRM28F24M500L

引脚号	符号	功能	引脚号	符号	功能
1	PR	并联控制	9	-OUT	输出负端
2	PC	原边控制端	10	+OUT	输出正端
3	TRIM	输出电压设置	11	VC	VTM控制
4	NC	空	12	RE	外环基准
5	NC	空	13	SG	信号地
6	AL	自适应环路控制	14	IF	电流监控
7	+IN	输入正端	15	VS	辅助源
8	-IN	输入负端	16	VT	VTM温度补偿

命名规则

YSPRM	28	F	36	M	120	L	-	-
系列名称	输入电压	封装代码	输出电压	温度等级	输出功率	插针类型	版本代号	定制代号
预稳压 微晶片系列	28:16-50V	F:FULL CHIP	36:26-50V	M: Tc: -55~100℃ Ts: -65~100℃ H: Tc: -40~100℃ Ts: -55~100℃ T: Tc: -40~100℃ Ts: -40~100℃	120:120W 240:240W 500:500W	L:表贴 T:插装	缺省:数字 A:模拟	缺省:标准 01:其他

YSVTM48F 系列

产品特点

- 隔离固定电压变比
- 高体积功率密度:1114W/in³
- 高重量功率密度:22W/g
- 重量:仅16g
- 过欠压、过流、短路和过热保护
- 支持8台并联扩容
- 级联JPRM组成分比式架构
- 工作温度:-55°C~100°C
- FULL CHIP封装:32.5x 22.0 x 6.73mm
- 满足SJ 20668《微电路模块总规范》



固定变比



低EMI



可扩展

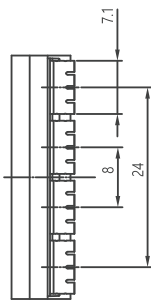
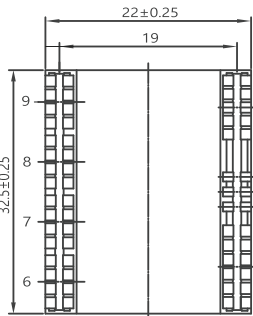
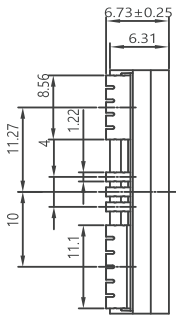


分比构架

产品规格

规格型号	输入电压	输出电压	电压变比	输出电流	输出功率	效率	研制进度
YSVTM48F04M50A	26~55V	4V	12:1	50A	200W	94.0%	开发中
YSVTM48F06M40A	26~55V	6V	8:1	40A	240W	94.6%	可供货
YSVTM48F08M30A	26~55V	8V	6:1	30A	240W	95.4%	可供货
YSVTM48F9V6M25A	26~55V	9.6V	5:1	25A	240W	95.8%	开发中
YSVTM48F12M25A	26~55V	12V	4:1	25A	300W	95.8%	可供货
YSVTM48F16M15A	26~55V	16V	3:1	15A	240W	95.0%	可供货
YSVTM48F24M12A5	26~55V	24V	2:1	12.5A	300W	95.5%	开发中
YSVTM48F32M9A5	26~55V	32V	3:2	9.5A	300W	96.2%	开发中

外形尺寸



引脚号	符号	功能
1	+IN	输入正端
2	TM	温度检测
3	VC	模块控制
4	PC	原边控制
5	-IN	输入负端
6	-OUT	输出负端
7	+OUT	输出正端
8	-OUT	输出负端
9	+OUT	输出正端

命名规则

YSVTM	48	F	06	M	40A	L	-	-
系列名称	输入电压	封装代码	输出电压	温度等级	输出电流	插针类型	版本代号	定制代号
隔离非稳压 微晶片系列	48:26~55V	F:FULL CHIP	06:6V 08:8V 9V6:9.6V	M: T _c : -55~100°C T _s : -65~100°C H: T _c : -40~100°C T _s : -55~100°C T: T _c : -40~100°C T _s : -40~100°C	12A5:12.5A 40A:40A	L:表贴 T:插装	缺省:数字 A:模拟	缺省:标准 01:其他

YSBCM384WEC 系列

产品特点

- 高压宽输入隔离固定变比
- 高体积功率密度:2352W/in³
- 高重量功率密度:40W/g
- 重量:仅41g
- 过欠压、过流、短路和过热保护
- 支持8台并联扩容
- 支持双向工作
- 工作温度:-55°C~100°C
- CHIP6123封装:61.0x 25.14 x 7.21mm
- 满足SJ 20668《微电路模块总规范》



高功密



固定变比



低EMI

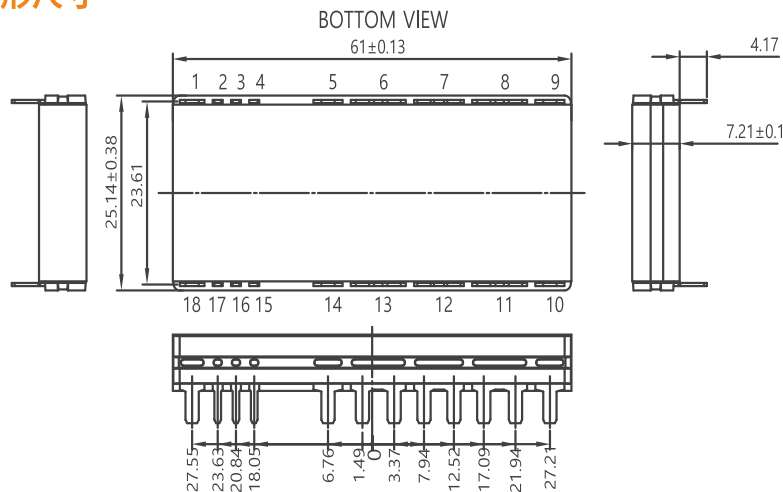


可扩展

产品规格

规格型号	输入电压	输出电压	电压变比	输出电流	输出功率	效率	研制进度
YSBCM384WEC12M68A	260~410V	12V	32:1	68A	816W	97.1%	可供货
YSBCM384WEC12M125A	260~410V	12V	32:1	125A	1500W	96.4%	可供货
YSBCM384WEC24M62A5	260~410V	24V	16:1	62.5A	1500W	96.5%	可供货

外形尺寸



引脚号	符号	功能
1	-IN	输入负端
2	VAUX	辅助源端
3	EN	使能端
4	TM	温度监测端
5,7,9,10,12,14	+OUT	输出正端
6,8,11,13	-OUT	输出负端
15,16,17,18	+IN	输入正端

命名规则

YSBCM	384W	EC	12	M	125A	T	R	-
系列名称	输入电压	封装代码	输出电压	温度等级	输出电流	插针类型	版本代号	定制代号
隔离非稳压 微晶片系列	384W: 260~410V	EC:CHIP6123 (长边出针)	12:12V 24:24V	M: Tc: -55~100°C Ts: -65~100°C H: Tc: -40~100°C Ts: -55~100°C T: Tc: -40~100°C Ts: -40~100°C	68A:68A 125A:125A 62A5:62.5A	T:插装	0:模拟控制 1:PMBUS控制 R:反向模拟 P:反向PMBUS	缺省:标准 01:其他

YSDCM270AFL 系列

产品特点

- 金属外壳加强散热
- 宽输入隔离稳压:160V~420V
- 高体积功率密度:612W/in³
- 重量:45g
- 过欠压、过流、短路和过热保护
- 支持8台并联扩容
- 4242Vdc 绝缘耐压
- 工作温度:-55℃~90℃
- 4623金属法兰封装:65.0x 27.2 x 9.8mm
- 满足SJ 20668《微电路模块总规范》



强散热



高功率



低EMI

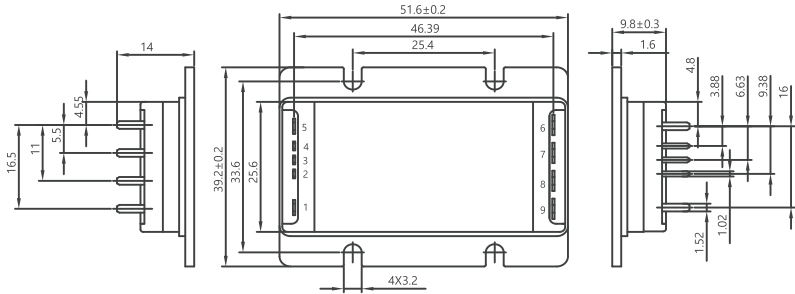


隔离稳压

产品规格

规格型号	输入电压	输出电压	调节范围	输出电流	输出功率	效率	研制进度
YSDCM270AFL3V3M150T	160~420V	3.3V	3.0~3.6V	45.46A	150W	87.7%	开发中
YSDCM270AFL05M250T	160~420V	5V	4.0~5.5V	50A	250W	89.1%	开发中
YSDCM270AFL12M500T	160~420V	12V	7.2~13.2V	41.67A	500W	91.1%	可供货
YSDCM270AFL15M500T	160~420V	15V	9.0~16.5V	33.4A	500W	91.8%	可供货
YSDCM270AFL24M500T	160~420V	24V	14.4~26.4V	20.84A	500W	92.6%	可供货
YSDCM270AFL28M500T	160~420V	28V	16.8~30.8V	17.86A	500W	93.2%	可供货
YSDCM270AFL48M500T	160~420V	48V	28.8~52.8V	10.42A	500W	92.0%	开发中

外形尺寸



引脚号	符号	功能
1	+IN	输入正端
2	TR	输出电压调节
3	EN	使能端
4	FT	故障指示端
5	-IN	输入负端
6	-OUT	输出负端
7	+OUT	输出正端
8	-OUT	输出负端
9	+OUT	输出正端

命名规则

YSDCM	270	AFL	12	M	500	T	P	-
系列名称	输入电压	封装代码	输出电压	温度等级	输出功率	插针类型	并联功能	版本代号
隔离稳压 微晶片系列	270:160~420V	AFL: 4623金属 法兰外壳	12:12V 48:48V	M: Tc: -55~100℃ Ts: -65~100℃ H: Tc: -40~100℃ Ts: -55~100℃ T: Tc: -40~100℃ Ts: -40~100℃	400:400W 500:500W 600:600W	L:表贴 T:插装	缺省:数字 A:模拟	缺省:标准 01:其他

YSDCM300AFL 系列

产品特点

- 金属外壳加强散热
- 宽输入隔离稳压:200V~420V
- 高体积功率密度:612W/in³
- 重量:45g
- 过欠压、过流、短路和过热保护
- 支持8台并联扩容
- 4242Vdc 绝缘耐压
- 工作温度:-55℃~90℃
- 4623金属法兰封装:65.0x 27.2 x 9.8mm
- 满足SJ 20668《微电路模块总规范》



强散热



高功率



低EMI

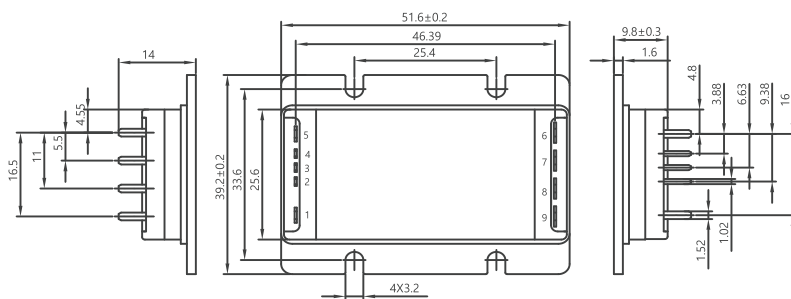


隔离稳压

产品规格

规格型号	输入电压	输出电压	调节范围	输出电流	输出功率	效率	研制进度
YSDCM300AFL3V3M150T	200~420V	3.3V	3.0~3.6V	45.46A	150W	87.7%	开发中
YSDCM300AFL05M250T	200~420V	5V	4.0~5.5V	50A	250W	89.1%	开发中
YSDCM300AFL12M500T	200~420V	12V	7.2~13.2V	41.67A	500W	91.1%	可供货
YSDCM300AFL15M500T	200~420V	15V	9.0~16.5V	33.4A	500W	91.8%	可供货
YSDCM300AFL24M500T	200~420V	24V	14.4~26.4V	20.84A	500W	92.6%	可供货
YSDCM300AFL28M500T	200~420V	28V	16.8~30.8V	17.86A	500W	93.2%	可供货
YSDCM300AFL48M500T	200~420V	48V	28.8~52.8V	10.42A	500W	92.0%	开发中
YSDCM300AFL24M600T	200~420V	24V	14.4~26.4V	25A	600W	92.6%	可供货

外形尺寸



引脚号	符号	功能
1	+IN	输入正端
2	TR	输出电压调节
3	EN	使能端
4	FT	故障指示端
5	-IN	输入负端
6	-OUT	输出负端
7	+OUT	输出正端
8	-OUT	输出负端
9	+OUT	输出正端

命名规则

YSDCM	300	AFL	12	M	500	T	P	-
系列名称	输入电压	封装代码	输出电压	温度等级	输出功率	插针类型	并联功能	版本代号
隔离稳压 微晶片系列	300:200~420V	AFL: 4623金属 法兰外壳	05:5V 12:12V	M: Tc: -55~90℃ Ts: -65~100℃ H: Tc: -40~90℃ Ts: -55~100℃ T: Tc: -40~100℃ Ts: -40~100℃	250:250W 500:500W	T:插装	P:支持并联 S:单机工作	缺省:标准 01:其他

通用电源模块

砖式电源（AC-DC模块）



	YSACG10S50CH	YSAC42S12CH
输入电压	90V AC~290V AC	90V AC~290V AC
输出电压	50V DC	12V DC
输出功率	500W	500W
尺寸 (长*宽*高)	86.0*45.0*12.8mm	86.0*45.0*12.8mm
效率	94%	91%

砖式电源（DC-DC模块）



	YSGBS20S5V5-4E	YSGBE30S3V3-E	YSGDE25S12B-E	YSGDE25S12B-PE
输入电压	36V DC~75V DC	36V DC~75V DC	36V DC~75V DC	36V DC~75V DC
输出电压	5.5V DC	3.3V DC	12V DC	12V DC
输出功率	100W	100W	300W	300W
尺寸 (长*宽*高)	33.3*23.1*9.9mm (标准1/16砖)	57.9*22.9*10.3mm (标准1/8砖)	58.4*22.9*12.1mm (标准1/8砖)	58.4*22.9*13.2mm (标准1/8砖)
效率	91.5%	92.5%	94.2%	94.2%
拓扑结构	隔离式	隔离式	隔离式	隔离式



	YSGDE25S12-E	YSGDE33S12B-4	YSGDQ54S12B-4PD	YSGDQ54S12B-4A
输入电压	36~75Vdc	36V DC~75V DC	36V DC~75V DC	36V DC~75V DC
输出电压	12V DC	12V DC	12V DC	12V DC
输出功率	300W	400W	650W	650W
尺寸 (长*宽*高)	57.9*22.9*8.9mm (标准1/8砖)	58.4*22.9*13.2mm (标准1/8砖)	57.9*36.8*13.4mm (标准1/4砖)	57.9*36.8*13.4mm (标准1/4砖)
效率	94.2%	95%	95%	95.5%
拓扑结构	隔离式	隔离式	隔离式	隔离式

通用电源模块

砖式电源 (DC-DC模块)



	YSGDQ74S10V8B-4	YSGDQ75S12B-4Q	YSGDQ100S12B-4P
输入电压	36V DC~75V DC	36V DC~75V DC	36V DC~72V DC
输出电压	10.8V DC	12V DC	12V DC
输出功率	800W	900W	1200W
尺寸 (长*宽*高)	57.9*36.8*13.4mm (标准1/4砖)	57.9*36.8*13.4mm (标准1/4砖)	57.9*40.8*14.8mm (非标准1/4砖)
效率	95.5%	96.5%	95%
拓扑结构	隔离式	隔离式	隔离式

通用电源模块

芯片级电源 (PSiP模块)



	YSNAE03S03-B	YSNAE12S03-B	YSNAM03S06-D	YSNAM12S06-D	YSNAE12S17-B	YSNAE12S20-C
输入电压	3.0V DC~5.75V DC	6.3V DC~14V DC	3.0V DC~5.75V DC	9.0V DC~14V DC	3.0V DC~14V DC	3.0V DC~14V DC
最大输出电流	3A	3A	6A	6A	17A	20A
输出电压	0.8V DC~3.7V DC	0.8V DC~5.2V DC	0.9V DC~3.7V DC	0.7V DC~5.4V DC	0.6V DC~5.5V DC	0.6V DC~5.5V DC
尺寸 (长*宽*高)	3.0*2.8*1.6 mm	3.0*2.8*1.6 mm	8.0*8.0*4.0 mm	7.0*7.0*4.0 mm	7.0*7.0*6.0 mm	11.0*11.0*4.0 mm
效率	93.5%	92%	96.5%	93.5%	92%	92%

产品型号	输入电压	输出模式	输出电压	最大输出电流	开关频率	尺寸 (长*宽*高)
 YSNDE12D15R-S	3V DC~15V DC	1+1	Vout ≤ 1.8 V	15A (单路)	600kHz	11.1mm*7.1mm *4.0mm
		1+1	Vout > 1.8 V	10A (单路)	1000kHz	
		2+0	Vout ≤ 1.8 V	28A	600kHz	
		2+0	Vout > 1.8 V	18A	1000kHz	
		4+0	Vout ≤ 1.8 V	50A	600kHz	
		4+0	Vout > 1.8 V	35A	1000kHz	

AVS电源



	YSNDD12S55-P1	YSNDD12S55-C1
输入电压	9V DC ~ 14V DC	9V DC ~ 14V DC
输出电压	0.5V DC~1.2V DC 可通过vBOOT引脚或PMBUS调节	/
输出电流	Nx50A	N=6/8/10/12/14/16 (功率模块数量)
尺寸	27.0mm×18.0mm×3.7mm (1.06in.×0.71in.×0.14in.)	26.3mm×23.2mm×3.2mm (1.04in.×0.91in.×0.13in.)
效率	88.0% (TA=25°C, Vin=12V, Vout=1.0V, Iout=300A, 仅功率模块输出)	/

服务器及通信电源模块

砖式电源 (DC-DC模块)



	YSGDC800D2854-PC	YSGDC800T5054-UC	YSGDC39S28-PE	YSGDC1K5D5023-PD
输入电压	36V DC~60V DC	36V DC~60V DC	34V DC~72V DC	34V DC~72V DC
输出电压	28V DC/5.4V DC	50V DC/5.4V DC/-9.5V DC	28V DC	50V DC/23V DC
输出功率	800W	800W	1100W	1500W@50VDC; 5.5W@23V DC
尺寸 (长*宽*高)	64.8*50.0*9.5mm (1.5倍1/4砖)	64.8*50.0*12.5mm (1.5倍1/4砖)	64.8*50.0*9.7mm (1.5倍1/4砖)	64.8*50.0*9.7mm (1.5倍1/4砖)
效率	95%	95%	95%	96%
拓扑结构	非隔离式	非隔离式	非隔离式	非隔离式



	YSGDC75S12-PD
输入电压	34V DC~72V DC
输出电压	12V DC
输出功率	900W
尺寸 (长*宽*高)	64.8×42.0×9.5mm
效率	95%
拓扑结构	隔离式

VPX 电源

- 高可靠性、模块化电源解决方案，遵循 **VITA 46/48/65** 标准
- 满足 GJB181B-2012，为机载信号处理等模块提供高功率密度、强抗干扰的供电支持
- 高功率密度集成设计：
550W 大功率多路输出，尺寸标准 3U 板卡结构
- 健康管理功能：
实时监测电源输入、输出各项指标
- 强大的保护功能：
具备防反接、抗浪涌功能，兼容软硬件使能控制

技术参数

项目	要求
输入	28Vdc $\pm$ 20%
输出	12V35A、28V5A、24V0.8A
功率	550W
功能	422 通讯、使能控制、完备的保护等

实物应用



定制国产化电源组件

电源组件广泛应用于工业系统上，为用户特殊定制多功能的系统电源产品。产品符合机载、车载、通讯等多种设备供电要求，主要由输入整流电路、EMI滤波电路、浪涌尖峰抑制电路、储能电路、DC/DC电源模块、输出滤波电路、各种输入输出保护和检测电路组成。具有高可靠性、电磁兼容性、可替换性、多功能性等特点。

产品实例1

该系列电源，采用PCB表面贴装工艺，法兰方式安装，电源组件广泛应用于工业系统上，为用户特殊定制多功能的系统电源产品。产品符合机载、车载、通讯等多种设备供电要求，主要由输入整流电路、EMI滤波电路、浪涌尖峰抑制电路、储能电路、DC/DC电源模块、输出滤波电路、各种输入输出保护和检测电路组成。具有高可靠性、电磁兼容性、可替换性、多功能性等特点。金属外壳灌封封装。



产品实例2



标准3U尺寸，VPX连接器接口，符合VITA62标准。具有IC通讯功能、故障隔离功能、输入欠压保护、输出过压保护、输出过流及短路保护、过温保护、输出可并联均流等功能，满足GJB181A、GJB151A、CE102、CS101、CS114、CS115、CS116等电磁兼容性要求。

产品实例3

该系列电源，采用PCB表面贴装工艺，法兰方式安装，电源组件广泛应用于工业系统上，为用户特殊定制多功能的系统电源产品。产品符合机载、车载、通讯等多种设备供电要求，主要由输入整流电路、EMI滤波电路、浪涌尖峰抑制电路、DC/DC电源模块、输出滤波电路、各种输入输出保护和检测电路组成。具有高可靠性、电磁兼容性、可替换性、多功能性等特点。金属外壳灌封封装。



YS620

增益可编程、高性能仪表放大器

YS620是一款增益可编程、高性能仪表放大器，在较宽频率范围内可提供业界较高的CMRR。传统仪表放大器产品的CMRR在几百赫兹时下降，而YS620在增益为1时，频率在10kHz以内均能保持80dB以上的高CMRR。优异的CMRR性能使得YS620可以抑制宽带干扰和谐波，大大简化了滤波器要求。

低失调电压、低失调漂移、低增益漂移、高增益精度和高CMRR特性，使该芯片成为要求最佳直流性能应用(如桥式信号调理)的绝佳选择。可编程增益为用户提供了设计灵活性。通过单个电阻即可将增益设置为1至1000。YS620采用单电源和双电源供电，适合 $\pm 10\text{V}$ 输入电压的应用。

对标型号: AD620

质量等级: GJB7400 企军标

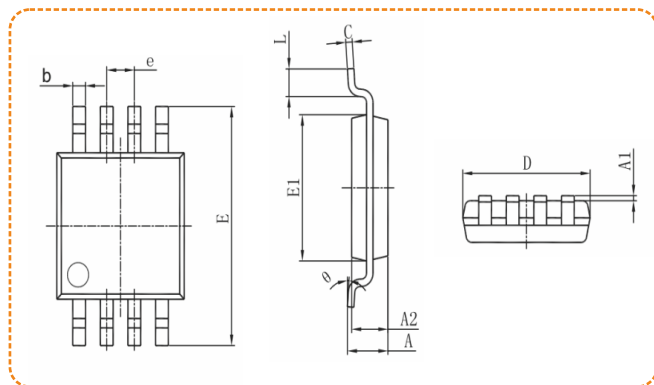
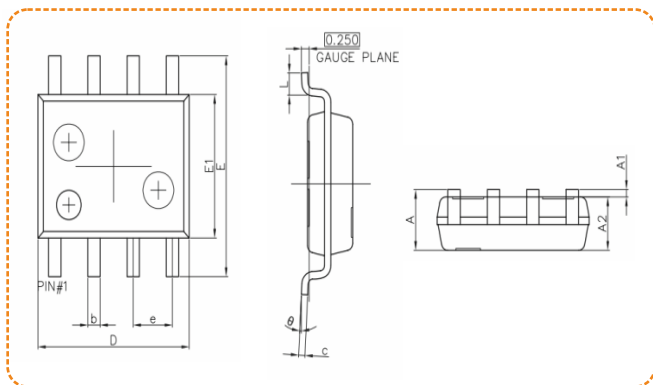
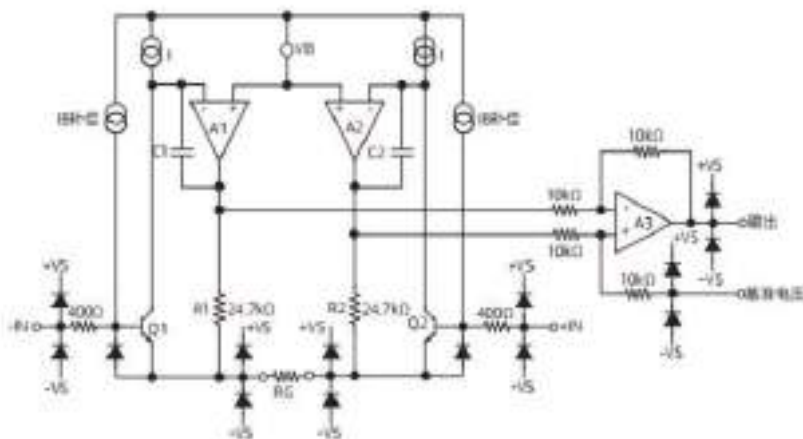
封装形式: 塑封SOP8, MSOP8

主要性能指标:

- 宽电源电压范围: $\pm 2.3\text{V} \sim \pm 18\text{V}$
- 输入失调电压: 最大值为 $40\mu\text{V}$
- 输入失调电压温漂: 最大值为 $0.3\mu\text{V}/^\circ\text{C}$
- 输入偏置电流: 最大值为 0.5nA
- 低输入电压噪声: 最大值为 $7\text{nV}/\text{Hz}$
- 等效输入噪声: 典型值为 $0.2\mu\text{Vpp}$ ($0.1\text{Hz} \sim 10\text{Hz}$)
- CMRR: 80dB (DC)/ 80dB (10kHz) ($G = 1$)

产品主要特征:

- 小信号 -3dB 带宽: 1000kHz ($G = 1$)
- 压摆率: $2.4\text{V}/\mu\text{s}$
- 通过单个外部电阻设置增益 ($G = 1 \sim 1000$)



SOP8 封装

标识	尺寸(毫米)		
	最小值	典型值	最大值
A	1.45	1.60	1.75
A1	0.10	0.18	0.25
A2	1.35	1.45	1.55
b	0.33	0.42	0.51
C	0.17	0.21	0.25
D	4.70	4.90	5.10
E	5.80	6.00	6.20
E1	3.80	3.90	4.00
e	1.27(BSC)		
theta	0°	4°	8°

MSOP8 封装

标识	尺寸(毫米)		
	最小值	典型值	最大值
A	-	-	1.10
A1	0.02	0.09	0.15
A2	0.75	0.85	0.95
b	0.25	0.32	0.38
C	0.09	0.16	0.23
D	2.90	3.00	3.10
e	0.65(BSC)		
E	4.75	4.90	5.05
E1	2.90	3.00	3.10
L	0.40	0.60	0.80
theta	0°	3°	6°

YS400

四通道低失调、低功耗运算放大器

YS400是一款高性能低功耗精密四通道运算放大器，采用DIP14型14引脚陶瓷双列直插封装，功能性能兼容ADI公司OP400精密运算放大器。YS400型精密四通道运算放大器工作电压 $\pm 15\text{V}$ （绝对最大额定极限可达 $\pm 20\text{V}$ ）。输入失调电压 $\leq 150\mu\text{V}$ ，输入偏置电流 $\leq 6\text{nA}$ ，输入失调电流 $\leq 1\text{nA}$ ，共模抑制比 $\geq 120\text{dB}$ ，电源抑制比 $\leq 1.8\mu\text{V/V}$ ，接 $10\text{k}\Omega$ 负载时开环增益大于 3000V/mV 。该产品采用了片内失调方式获得极低的输入失调电压，不需再额外进行外接调零消除失配。该产品单路具有低于 $725\mu\text{A}$ 的低功耗，其四路总静态电流低于大多数同类精密运算放大器产品，非常适用于精密低功耗信号采集与处理系统。工作环境温度（TA）： $-55^\circ\text{C} \sim 125^\circ\text{C}$ 。

对标型号：OP400

质量等级：GJB597B-2012 B级、GJB7400 N1级或企军标

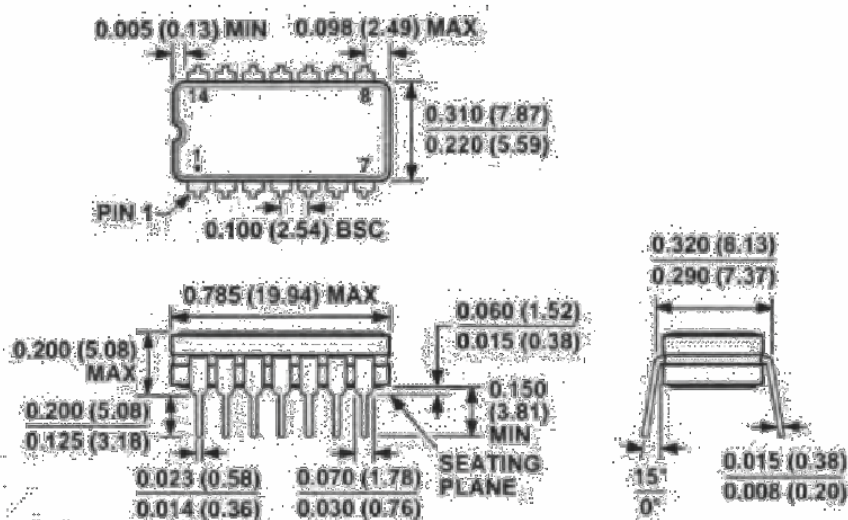
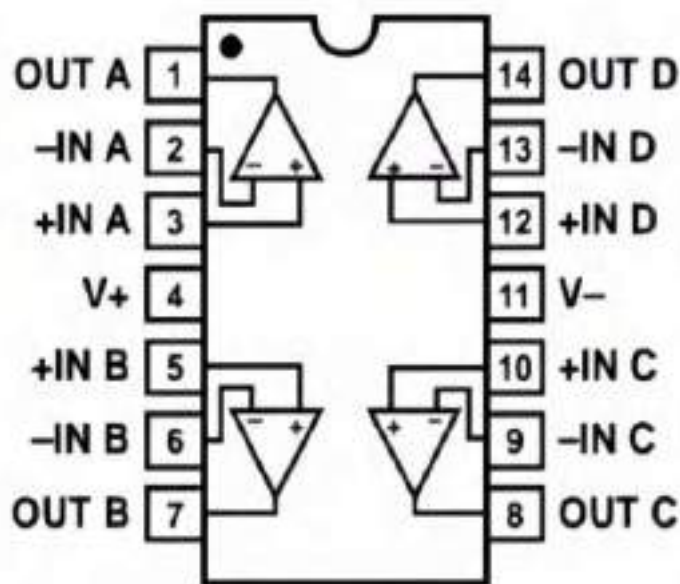
封装形式：塑封SOIP16/陶封CDIP14

主要性能指标：

- 低输入失调电压： $\leq 150\mu\text{V}$
- 低失调温漂： $\leq 1.2\mu\text{V}/^\circ\text{C}$
- 低工作电流： $\leq 725\mu\text{A}/\text{通道}$
- 高增益： $\geq 3000\text{V/mV}$

产品主要特征：

- 核心指标可完全对标国外产品



管壳尺寸图

YS8032

低功耗轨到轨输入输出运算放大器

YS8032是一款双路单电源电压反馈型放大器，采用+5 V单电源供电，具有轨到轨输入和输出特性，电源电压为+2.7V、+5 V和±5 V。工作电流每通道小于1100μA，具有高速特性，小信号带宽为65 MHz，压摆率为22 V/μs，输入电压范围可以扩展至各供电轨以外200 mV，输出电压摆幅距各供电轨50 mV以内。采用+5 V电源时，对于2 V峰峰值、1 MHz输出信号，适合用作单电源ADC缓冲器。

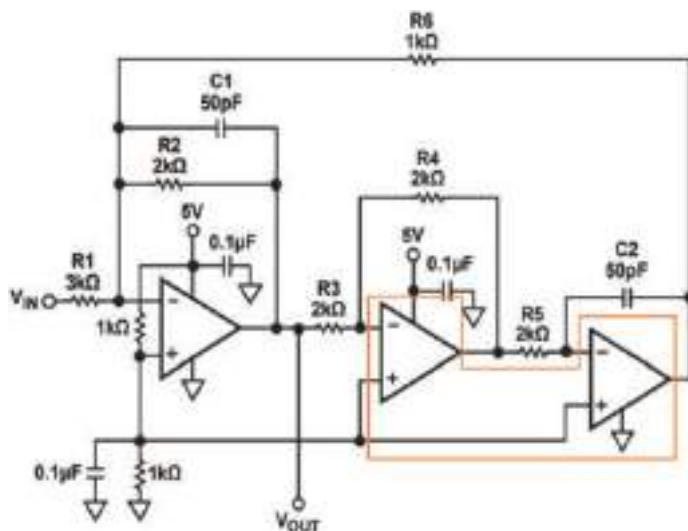
对标型号：AD8032

质量等级：企军标

封装形式：SOP8

主要性能指标：

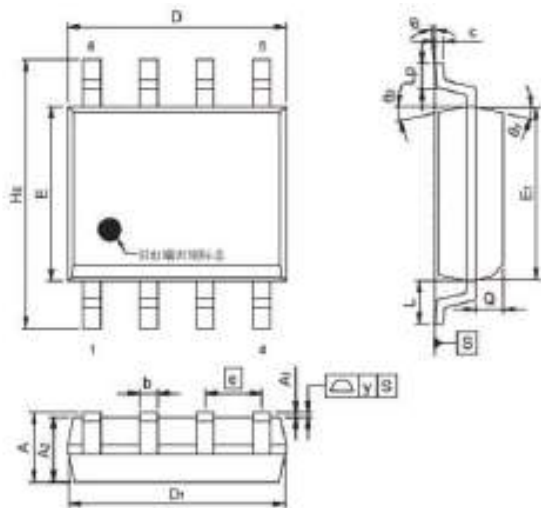
- 低功耗：电源电流1100 μA/通道；
- 支持电源电压：+2.7 V、+5 V和±5 V；
- 高速、快速建立（5 V）：
 - 3 dB带宽：65 MHz（G = +1）；
 - 压摆率：22 V/μs；



产品主要特征：

- 轨到轨输入和输出
- 核心指标可完全对标国外产品

单位：mm



尺寸 符号	数值			尺寸 符号	数值		
	最小	公称	最大		最小	公称	最大
A	1.50	—	1.75	b	0.35	—	0.45
A1	0.10	—	0.25	c	0.15	—	0.25
A2	1.40	—	1.50	e	—	1.27	—
Q	0.58	—	0.68	y	—	—	0.15
D	4.80	—	5.00	Lp	0.40	—	0.80
D1	4.75	—	4.95	L	—	1.05	—
E	3.80	—	4.00	θ	0°	—	8°
E1	3.75	—	3.95	θ1	—	12°	—
HE	5.80	—	6.20	θ2	—	12°	—

YS8042

高带宽轨到轨模数转换器驱动器

YS400是一款高性能低功耗精密四通道运算放大器，采用DIP14型14引脚陶瓷双列直插封装，功能性能兼容ADI公司OP400精密运算放大器。YS400型精密四通道运算放大器工作电压 $\pm 15\text{V}$ （绝对最大额定极限可达 $\pm 20\text{V}$ ）。输入失调电压 $\leq 150\mu\text{V}$ ，输入偏置电流 $\leq 6\text{nA}$ ，输入失调电流 $\leq 1\text{nA}$ ，共模抑制比 $\geq 120\text{dB}$ ，电源抑制比 $\leq 1.8\mu\text{V/V}$ ，接 $10\text{k}\Omega$ 负载时开环增益大于 3000V/mV 。该产品采用了片内修调方式获得极低的输入失调电压，不需再额外进行外接调零消除失配。该产品单路具有低于 $725\mu\text{A}$ 的低功耗，其四路总静态电流低于大多数同类精密运算放大器产品，非常适用于精密低功耗信号采集与处理系统。

工作环境温度（TA）： $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$ 。

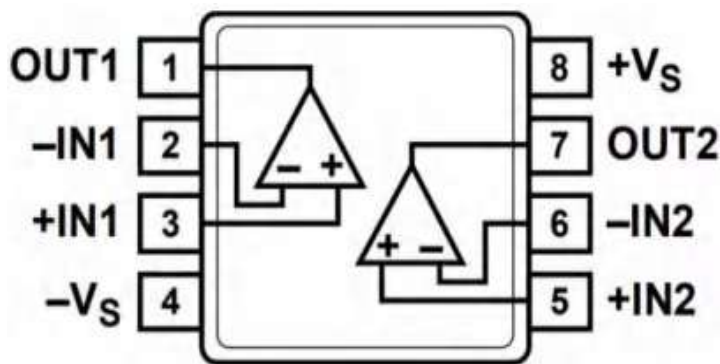
对标型号：AD8042

质量等级：GJB7400 N1级或企军标

封装形式：SOP8

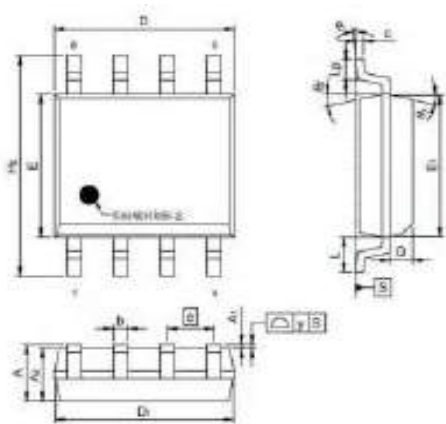
主要性能指标：

- 低功耗：每个放大器 6.0mA ；
- 支持电源电压： $+3\text{V}$ 、 $+5\text{V}$ 和 $\pm 5\text{V}$ ；
- 高速、快速建立（ 5V ）：
 - 3 dB带宽: 120MHz （ $G = +1$ ）；
 - 压摆率: $130\text{V}/\mu\text{s}$ ；



产品主要特征：

- 轨到轨输入和输出
- 核心指标可完全对标国外产品



管壳尺寸图

单位：毫米

尺寸 符号	数值			尺寸 符号	数值		
	最小	公称	最大		最小	公称	最大
A	1.500	—	1.750	e	1.270 (BSC)		
A ₁	0.100	—	0.250	E	3.800	—	4.000
A ₂	1.400	—	1.500	H _t	5.800	—	6.200
b	0.350	—	0.450	Lp	0.400	—	0.800
c	0.150	—	0.250	θ	0°	—	8°
D	4.800	—	5.000				

YS8138

低失真差分模数转换器驱动器

YS8138是一款采用国产高压双极互补工艺制造的差分驱动器，可用作单端至差分放大器或差分至差分放大器。-3dB带宽为300 MHz，谐波失真极低。内部反馈电路可以使外部增益设置电阻不匹配的任何相关增益误差最小。在VOCM引脚上施加电压便可调整差分输出的共模电平，从而使驱动单电源ADC的输入信号轻松实现电平转换。拥有良好的失真性能足以在较高频率下驱动10位至16位模数转换器，应用于特种高可靠或国产化要求的场景。

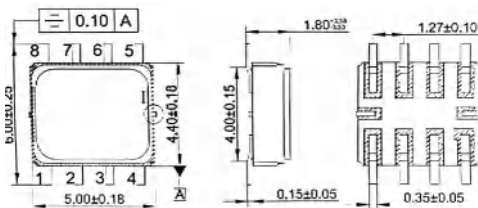
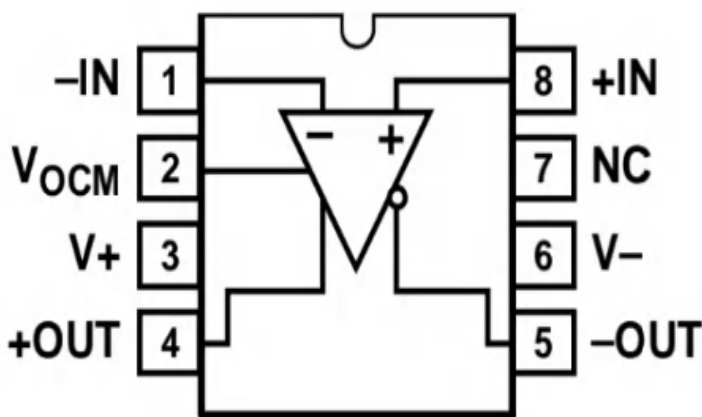
对标型号: AD8138

质量等级: GJB597B-2012 B级、GJB7400 NI级或企军标

封装形式: 陶封CSOP8/塑封SOP8

主要性能指标:

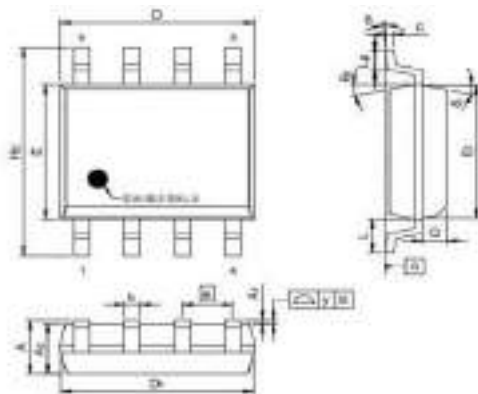
- 易于使用，单端至差分转换
- 可调输出共模电压
- 外部可调增益
- -3 dB带宽：300 MHz($G = +1$)
- 压摆率： $\geq 880\text{V}/\mu\text{s}$
- 高可靠塑封SOP8/陶封CSOP8装：40-pin QFN
- 供电电压： $+5\text{V} / \pm 5\text{V}$
- 工作温度范围： $-55\sim 125^{\circ}\text{C}$



陶封CSOP8

产品主要特征:

- 片内集成2.5V基准
- 核心指标可完全对标国外产品



塑封SOP8

尺寸符号	数值			尺寸符号	数值		
	最小	公称	最大		最小	公称	最大
A	1.50	—	1.75	b	0.35	—	0.45
A ₁	0.10	—	0.25	c	0.15	—	0.25
A ₂	1.40	—	1.50	e	—	1.27	—
Q	0.58	—	0.68	y	—	—	0.15
D	4.80	—	5.00	Lp	0.40	—	0.80
D ₁	4.75	—	4.95	L	—	1.05	—
E	3.80	—	4.00	θ	0°	—	8°
E1	3.75	—	3.95	θ ₁	—	12°	—
H _ε	5.80	—	6.20	θ ₂	—	12°	—

YS8139

低失真差分模数转换器驱动器

YS8139是一款采用国产高压双极互补工艺制造的用作单端至差分放大器或差分至差分轨到轨放大器。-3dB带宽为220 MHz，提供差分信号和高的SFDR，且谐波失真与噪声极低，是驱动高精度ADC的理想选择。具有独特的内部反馈特性可以实现输出增益和相位匹配平衡，从而抑制偶数阶谐波。内部反馈电路可以使外部增益设置电阻不匹配的任何相关增益误差最小。

对标型号: AD8139

质量等级: GJB7400 N1级或企军标

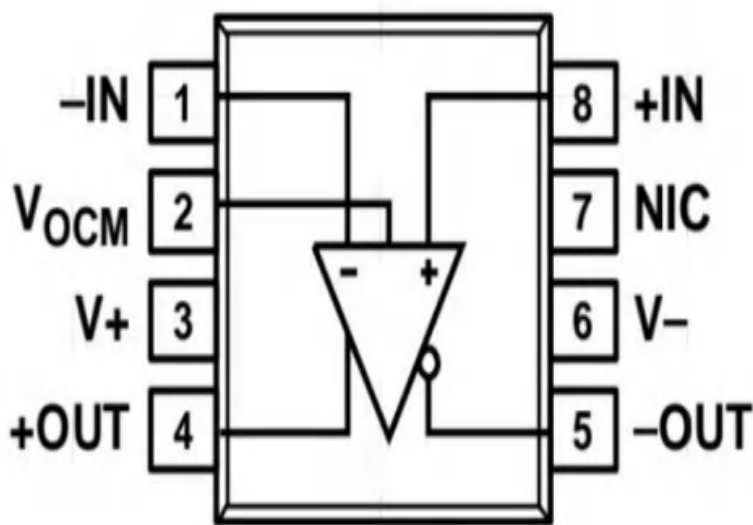
封装形式: 塑封SOP8

主要性能指标:

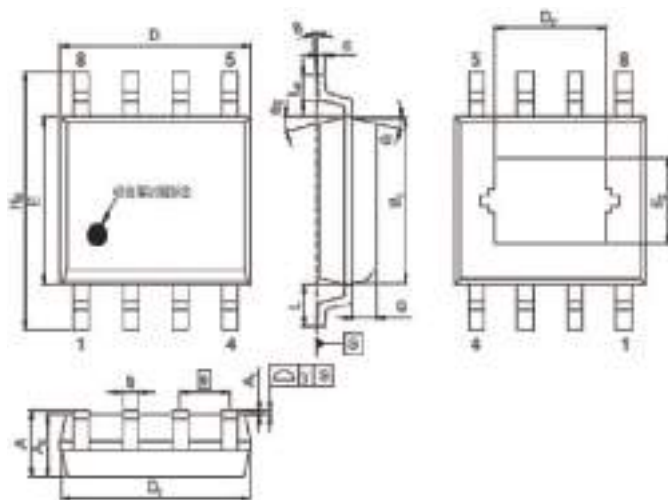
- 易于使用，单端至差分转换
- 可调输出共模电压
- 外部可调增益
- 轨到轨的输出
- -3 dB带宽: 220 MHz($G = +1$)
- 低输入电压噪声: 2.25 nV/√Hz
- 0.01%快速建立时间: 45 ns
- 压摆率: 600 V/μs
- 共模抑制比: 60dB

产品主要特征:

- 片内集成2.5V基准
- 核心指标可完全对标国外产品



尺寸 符号	数 值			尺寸 符号	数 值		
	最小	公称	最大		最小	公称	最大
A	1.50	—	1.75	H _E	5.80	—	6.20
A ₁	0.10	—	0.25	b	0.35	—	0.45
A ₂	1.40	—	1.50	c	0.15	—	0.25
Q	0.58	—	0.68	y	—	—	0.15
D	4.80	—	5.00	L _p	0.40	—	0.80
D ₁	4.75	—	4.95	L	—	1.05	—
D ₂	2.78	—	2.98	θ	0°	—	8°
E	3.80	—	4.00	θ ₁	—	12°	—
E ₁	3.75	—	3.95	θ ₂	—	12°	—
E ₂	1.93	—	2.13				



SOP8封装尺寸图

Domestic ERM Series DC/DC Isolated Power Module

The ERM series power supply module is a 100% domestic isolation DC/DC converter, which is packaged in a five-sided metal shell and installed in a double-row direct-insertion manner.

Electrical properties ($T_A=25^{\circ}\text{C}$)

Key property	Characteristic	Least value	Representative value	Crest value	Unit	Remarks
● isolated output ● high efficiency ● low ripple ● five surface metal encapsulation ● fixed switching frequency ● The product is small in size. ● input under-voltage protection ● overcurrent protection ● output short circuit protection ● enable control function ● no minimum load requirement ● 100% domestic production	Input voltage range	4.5	5.0	9	VDC	Series 5
		9	28	40	VDC	Series 18
		16	28	40	VDC	28 Series
	Input under-voltage protection	3.75	/	4.5	VDC	Series 5, half load
		7	/	9	VDC	Series 18, half load
		13	/	16	VDC	28 Series, half load
	Input surge voltage	/	/	50	VDC	18/28 series, 100ms, full load
	Output voltage accuracy	-1.0	0.5	+1.0	%Vo	Loaded to capacity
	Voltage regulation	-1.0	/	+1.0	%Vo	Full temperature, full voltage, full load
	Current regulation	-2.0	/	+2.0	%Vo	Full temperature, full voltage, full load, dual balanced load
	Start time	/	4	/	ms	Full load, startup Time to reach 10% of the output voltage
	Output dynamic overshoot	-5.0	/	+5.0	%Vo	25%-50%-25%、 50%-75%-50%, di/dt=0.1A/us
	Output dynamic recovery time		/	500	us	
	Overcurrent protection	110	/	/	%Io	Hiccup mode, self-resuming after flow interruption
	Output short circuit protection	-	-	-	-	Hiccup mode, self-resuming after short-circuit termination
Main Application Fields	Other features					
● space flight and aviation ● vehicle-mounted system ● mobile unit	Switching frequency	/	300	/	kHz	
	Thermoluminescence coefficient	-0.02	/	+0.02	%/°C	
	Enable control level (positive logic)	-0.3	/	0.7	VDC	Low level, no output
		3.5	/	12	VDC	Hanging or connected to high level, with output
	Insulation resistance (500V DC)	100	/	/	MΩ	Input, output, and housing between each other, 500VDC
	Insulation voltage	/	/	1000	V	Input to output, rise time 500V/s, 1 minute, leakage current ≤3.5mA. No arc, no breakdown
	Working temperature	-55	/	105	°C	Shell temperature
	Storage temperature	-55	/	125	°C	Ambient temperature

Naming Rule

Series abbreviation	Input voltage	Number of output channels	Output voltage	Temperature grade	Output power	Logical type	Installation type
ERM	28	S	05	M	5	P	S
ERM: Standard power source module 12.7*12.7*10. 8mm	5:4.5-9V 18: 9-40V 28:16-40V	S: one way D: twin ch-annel	3V3:3.3V 05:5V 06:6V 28:28V	M: Enterprise Military Level -55℃ ~ 105℃ T: technical grade -40℃ ~ 85℃	3:3W 5:5W	P: positive logic	S: conventional type

External Dimensions and Lead-out Definition

The external dimensions must comply with the dimensional drawings (unit: mm), with a default tolerance of ± 0.25 mm for dimensions not specified in the drawings.

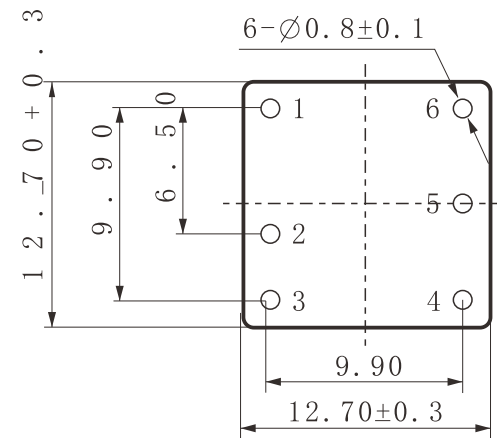
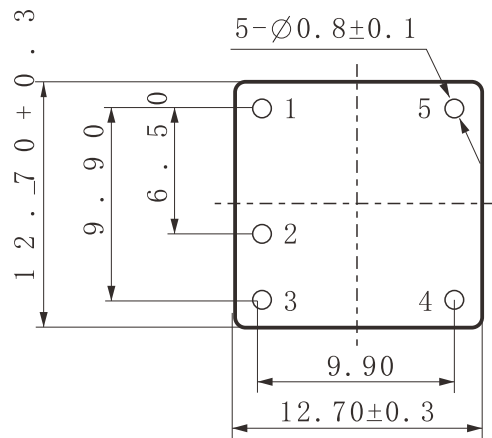
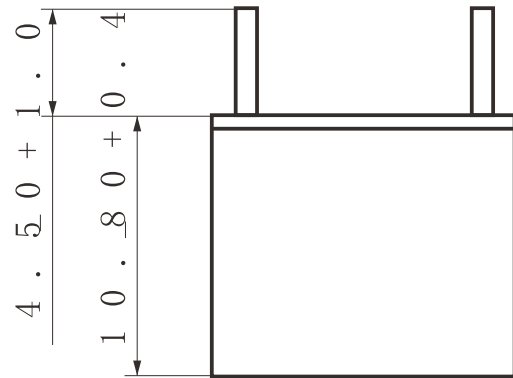
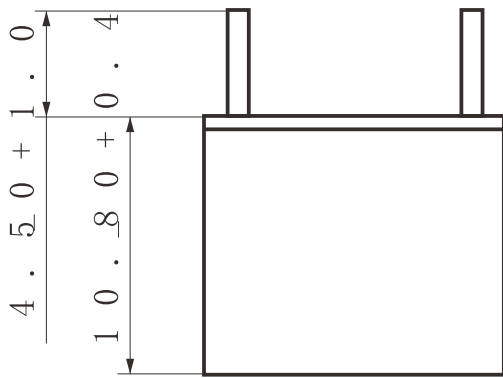


Figure 1 Single-Channel (S) Weighing 5 G, With the Lead Foot Facing Upward

Figure 2 Double @-@ Channel (D) Weighing 5g, With the Lead Foot Facing Upward

18/28 Series Pinout Definition					
One way (S)			Twin channel (D)		
Input port number	Definition	Function	Input port number	Definition	Function
1	+Vin	Enter positive terminal	1	+Vin	Enter positive terminal
2	-Vin	Enter the negative terminal	2	-Vin	Enter the negative terminal
3	ENA	Enable control terminal	3	ENA	Enable control terminal
4	-Vout	Output negative terminal	4	-Vout	Output negative terminal
5	+Vout	Output positive terminal	5	COM	Output terminal
			6	+Vout	Output positive terminal

Product Model List

Model	Input voltage (V)	Output voltage (V)	Output (A)	Productiveness (typical case : %)	Capacitive load (μF)	Ripple wave (Typical: mVp p)	ZZKK grade
4.5V-9V input (3W)							
YSERM05S3V3M3PS	4.5-9	3.3	0.91	76	470	30	C
YSERM05S05M3PS	4.5-9	5	0.6	82	220	30	C
YSERM05S06M3PS	4.5-9	6	0.5	82	220	20	C
YSERM05S09M3PS	4.5-9	9	0.33	83	150	30	C
YSERM05S12M3PS	4.5-9	12	0.25	84	150	30	C
YSERM05S15M3PS	4.5-9	15	0.2	85	100	30	C
YSERM05S24M3PS	4.5-9	24	0.13	84	100	40	C
YSERM05S28M3PS	4.5-9	28	0.11	84	47	40	C
YSERM05D05M3PS	4.5-9	± 5	0.3	80	150	30	C
YSERM05D12M3PS	4.5-9	± 12	0.13	84	47	30	C
YSERM05D15M3PS	4.5-9	± 15	0.1	84	47	30	C

9V-40V input (5W)							
YSERM18S3V3M5PS	9-40	3.3	1.5	78	330	40	C
YSERM18S05M5PS	9-40	5	1	82	330	40	C
YSERM18S06M5PS	9-40	6	0.83	84	330	40	C
YSERM18S09M5PS	9-40	9	0.56	84	220	30	C
YSERM18S12M5PS	9-40	12	0.42	86	220	30	C
YSERM18S15M5PS	9-40	15	0.33	85	220	30	C
YSERM18S24M5PS	9-40	24	0.21	86	100	40	C
YSERM18S28M5PS	9-40	28	0.18	84	100	40	C
YSERM18D05M5PS	9-40	± 5	0.5	80	220	40	C
YSERM18D12M5PS	9-40	± 12	0.21	83	100	40	C
YSERM18D15M5PS	9-40	± 15	0.17	83	100	40	C
16V-40V input (5W)							
YSERM28S3V3M5PS	16-40	3.3	1.5	78	470	40	C
YSERM28S05M5PS	16-40	5	1	82	470	40	C
YSERM28S06M5PS	16-40	6	0.83	84	470	40	C
YSERM28S09M5PS	16-40	9	0.56	85	220	30	C
YSERM28S12M5PS	16-40	12	0.42	86	220	30	C
YSERM28S15M5PS	16-40	15	0.33	86	220	30	C
YSERM28S24M5PS	16-40	24	0.21	86	100	40	C
YSERM28S28M5PS	16-40	28	0.18	85	100	40	C
YSERM28D05M5PS	16-40	± 5	0.5	80	220	40	C
YSERM28D12M5PS	16-40	± 12	0.21	83	100	40	C
YSERM28D15M5PS	16-40	± 15	0.17	83	100	40	C

Note 1: The performance parameters in the manual are typical values. For specific parameters and quality assurance requirements, please refer to the detailed product specifications or technical manuals provided by our company.

Note 2: The model list includes only typical models and can be customized according to specific customer requirements.

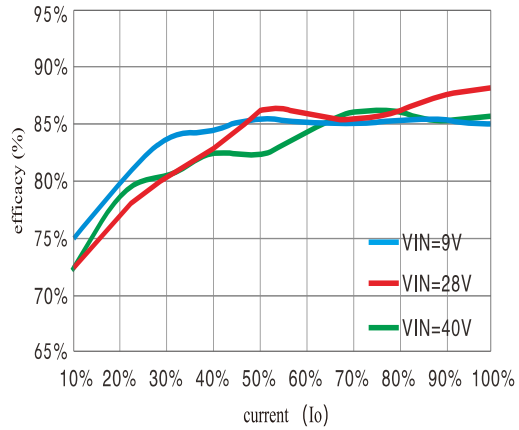
Electrical characteristic curve (example: LDERM18S12M5PSDZ $T_A=25^{\circ}\text{C}$)

Figure 1 Efficiency Curve

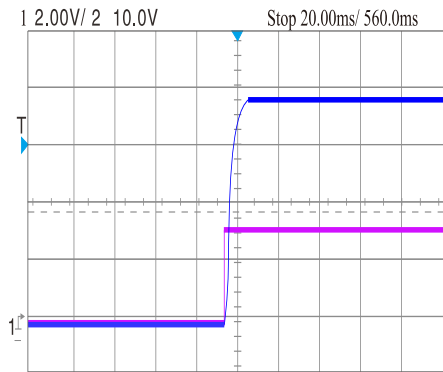


Figure 2 Waveform of Power On

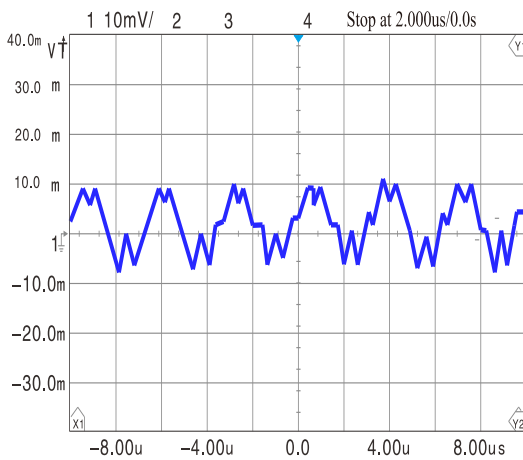


Figure 3 Waveforms and Noise Output

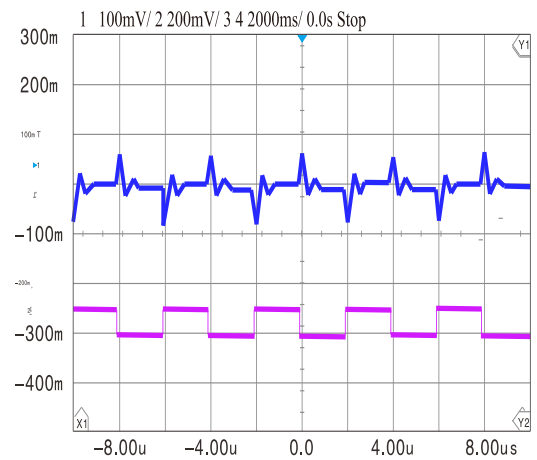


Figure 4 Dynamic Response to Output

For typical applications, refer to Article 2 of the 'Power Module Application Guide' (Figure 2).

National Domestic ERK Series DC/DC Isolated Power Module

ERK series power modules are 100% domestic isolated DC/DC converters with five-sided metal enclosure and double row direct insertion.

Electrical properties ($T_A = 25^\circ\text{C}$)

Key property	Characteristic	Least value	Representative value	Crestvalue	Unit	Remarks
● isolated output ● high efficiency low ripple ● five surface metal encapsulation ● fixed switching frequency ● The product is small in size. ● input under-voltage protection ● overcurrent protection ● output short circuit protection ● output voltage adjustment ● enable control function ● minimum load requirement ● 100% domestic production	Input voltage range	9	28	40	VDC	Series 18
		16	28	40	VDC	28 Series
		16	48	75	VDC	Series 48
	Input under-voltage protection	7	/	9	VDC	Series 18, half load
		13	/	16	VDC	28/48 series, half load
	Input surge voltage	/	/	50	VDC	18/28 series, 100 mS, full load
	Output voltage accuracy	-1.0	0.5	+1.0	%Vo	Loaded to capacity
	Voltage regulation	-1.0	/	+1.0	%Vo	Full temperature, full voltage, full load
	Current regulation	-2.0	/	+2.0	%Vo	Full temperature, full voltage, full load, dual balanced load
	Start time	/	5	/	ms	Loaded to capacity Time to reach 10% output voltage rise after startup
	Ripple wave	-	-	80	mVpp	Bandwidth 20 MHz, output connected to a 0.1 μF capacitor for measurement, full load,
	Output voltage adjustment	-10	-	10	%Vo	reference model list $I_o \leq \text{rated output current, and } P_o \leq \text{rated power}$
	Output dynamic overshoot	-5.0	/	+5.0	%Vo	25%-50%-25% 、50%-75%-50%, $di/dt=0.1\text{A}/\mu\text{s}$
	Output dynamic recovery time		/	500	μs	
	Overcurrent protection	110	/	/	%Io	Hiccup mode, self-resuming after flow interruption
	Output short circuit protection	-	-	-	-	Hiccup mode, self-resuming after short-circuit termination
Main Application Fields	Other features					
● spaceflight and aviation ● vehicle-mounted system ● mobile unit	Switching frequency	/	300	/	kHz	
	Thermoluminescence coefficient	-0.02	/	+0.02	%/°C	
	Enable control level (positive logic)	-0.3	/	0.7	VDC	Low level, no output
		3.5	/	12	VDC	Hanging or connected to high level, with output
	Insulation resistance (500VDC)	100	/	/	M Ω	Input, output, and housing between each other, 500VDC
	Insulation voltage	/	/	1500	V	Input to output, rise time 500V/s, 1 minute, leakage current $\leq 3.5\text{ mA}$, no arc, no breakdown
	Working temperature	-55	/	105	°C	Shell temperature
	Storage temperature	-55	/	125	°C	Ambient temperature 1

Naming Rule

Series abbreviation	Input voltage	Number of output channels	Output voltage	Temperature grade	Output power	Logical type	Installation type
ERK	28	S	05	M	10	P	S
ERK: Standard power module 25.4* 12.7* 10.8 mm	18:9~40V 28:16~40V 48:16~75V	S: one way D: twin ch-annel	3V3:3.3V 05:5V 12:12V 28:28V	M: Enterprise Military Level -55℃ ~ 105℃ T: technical gr- ade -40℃ ~ 85℃	10:10W 15 :15W	P: positive logic	S: conventional type P: Reinforced type

External dimensions and lead-out definition

The external dimensions must comply with the dimensional drawings (unit: mm), with a default tolerance of ± 0.25 mm for dimensions not specified in the drawings.

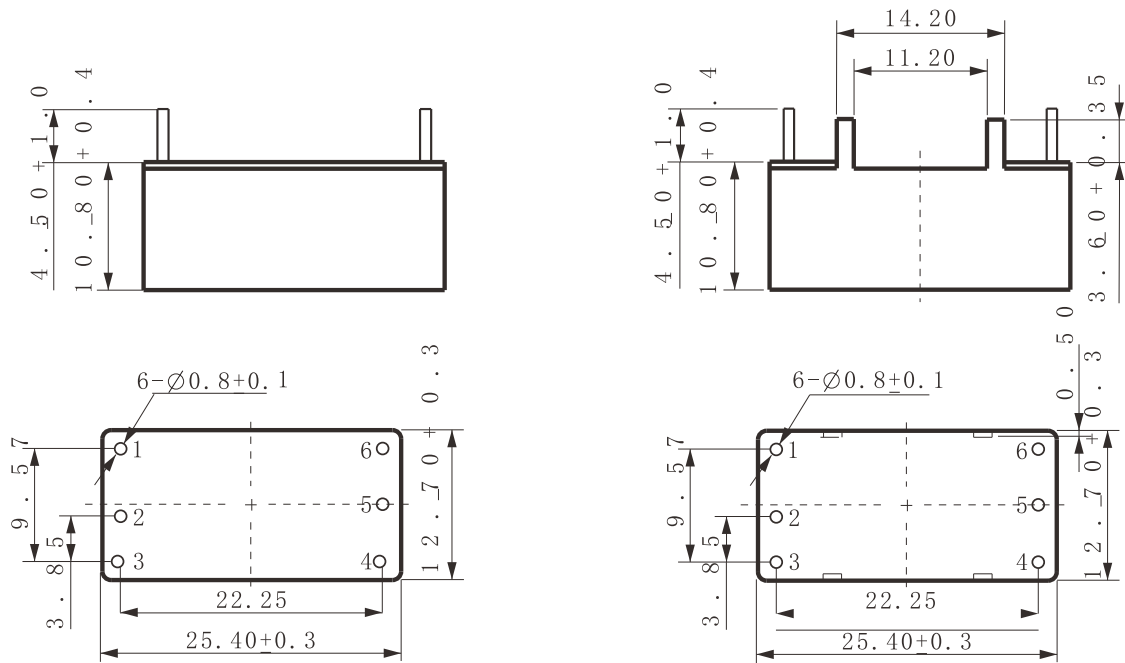


Figure 1 Shaped (normal) Weight 11 G,
With the Foot Drawn Upward

Figure 2 Type (reinforced) Weight 11.5 G, With the Foot Drawn Up

18/28/48 Series Pinout Definition					
One way (S)			Twin channel (D)		
Input port number	Definition	Function	Input port number	Definition	Function
1	+Vin	Enter positive te-rminal	1	+Vin	Enter positive te-rminal
2	-Vin	Enter the negative terminal	2	-Vin	Enter the negative terminal
3	ENA	Enable control te-rminal	3	ENA	Enable contro l te-rminal

18/28/48 Series Pinout Definition					
One way (S)			Twin channel (D)		
4	-Vout	Output negative te-rminal	4	-Vout	Output negative te-rminal
5	Trim	Output voltage adjustment te-rminal	5	COM	Output terminal
6	+Vout	Output positive ter-minal	6	+Vout	Output positive ter-minal

Product Model List

Model	Input voltage (V)	Output voltage (V)	Output (A)	Productiveness (typical case : %)	Capacitive load (μF)	Ripple wave (Typical: mVp p)	ZZKK grade
9V to 40V input 10W							
YSERK18S3V3M10PS	9-40	3.3	3	79	470	40	B
YSERK18S05M10PS	9-40	5	2	82	470	30	B
YSERK18S06M10PS	9-40	6	1.67	85	470	30	B
YSERK18S09M10PS	9-40	9	1.12	86	220	30	B
YSERK18S12M10PS	9-40	12	0.84	86	220	30	B
YSERK18S15M10PS	9-40	15	0.67	86	220	30	B
YSERK18S24M10PS	9-40	24	0.42	88	220	40	B
YSERK18S28M10PS	9-40	28	0.36	89	220	40	B
YSERK18D05M10PS	9-40	± 5	1	82	470	40	B
YSERK18D12M10PS	9-40	± 12	0.42	86	220	40	B
YSERK18D15M10PS	9-40	± 15	0.34	85	220	40	B
16-40V input 15W							
YSERK28S3V3M10PS	16-40	3.3	3	79	470	30	B
YSERK28S05M15PS	16-40	5	3	82	470	30	B
YSERK28S06M15PS	16-40	6	2.5	85	470	30	B
YSERK28S09M15PS	16-40	9	1.67	86	220	30	B
YSERK28S12M15PS	16-40	12	1.25	86	220	30	B
YSERK28S15M15PS	16-40	15	1	87	220	30	B
YSERK28S24M15PS	16-40	24	0.63	88	220	40	B
YSERK28S28M15PS	16-40	28	0.54	89	220	40	B
YSERK28D05M15PS	16-40	± 5	1.5	82	470	40	B
YSERK28D12M15PS	16-40	± 12	0.63	86	220	40	B
YSERK28D15M15PS	16-40	± 15	0.5	86	220	40	B

Model	Input voltage (V)	Output voltage (V)	Output (A)	Productiveness (typical case :%)	Capacitive load (μF)	Ripple wave (Typical: mVp p)	ZZKK grade
16V-75V input, 10W							
YSERK48S05M10PS	16-75	5	2	82	470	30	B
YSERK48S12M10PS	16-75	12	0.83	84	220	40	B

Note 1: The performance parameters in the manual are typical values. For specific product specifications and quality assurance requirements, please refer to the detailed product specifications provided by our company.

Note 2: The manual lists only standard models and can be customized according to your specific requirements.

Electrical characteristic curve (example: LDERK28S12M15PSDZ $T_A=25^\circ\text{C}$)

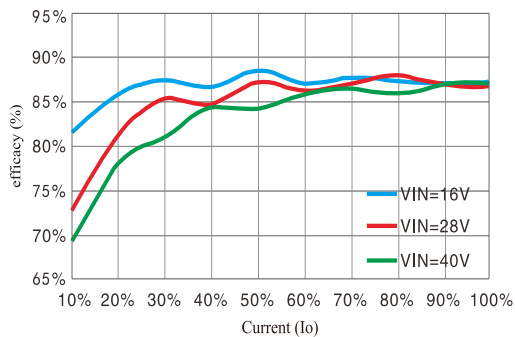


Figure 1 Efficiency Curve

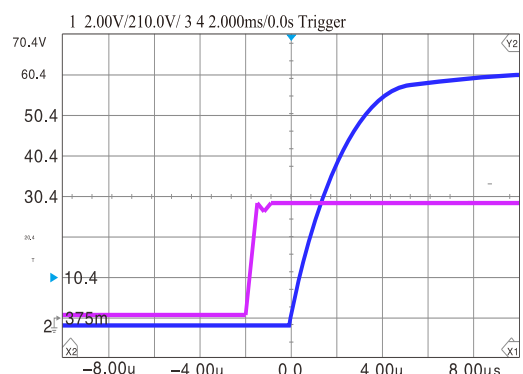


Figure 2 Waveform of Power On

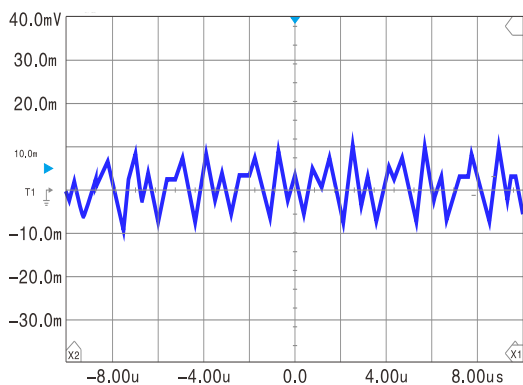


Figure 3 Waveforms and Noise Output

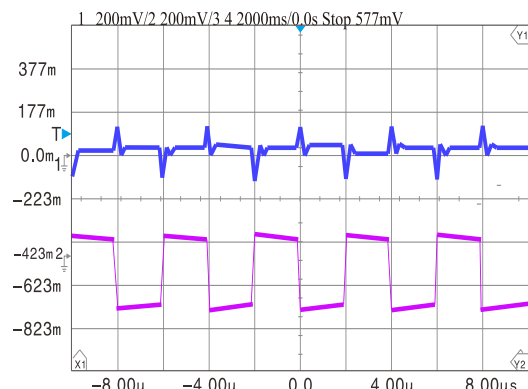


Figure 4 Dynamic Response to Output

For typical applications, refer to Article 2 of the 'Power Module Application Guide' (Figure 2).

Low Voltage DC/DC Module — 1/32 Brick 40W Series

The 1/32 Brick 40W Series Low-Voltage DC/DC Module Power Supply features a five-sided metal enclosure with encapsulation and sealing, and direct-insertion terminals. It delivers high reliability, efficiency, power density, and low ripple noise. With standard 1/32 brick dimensions and fully domestic components, it is widely used in industrial control fields such as aviation, aerospace applications.

Product Features

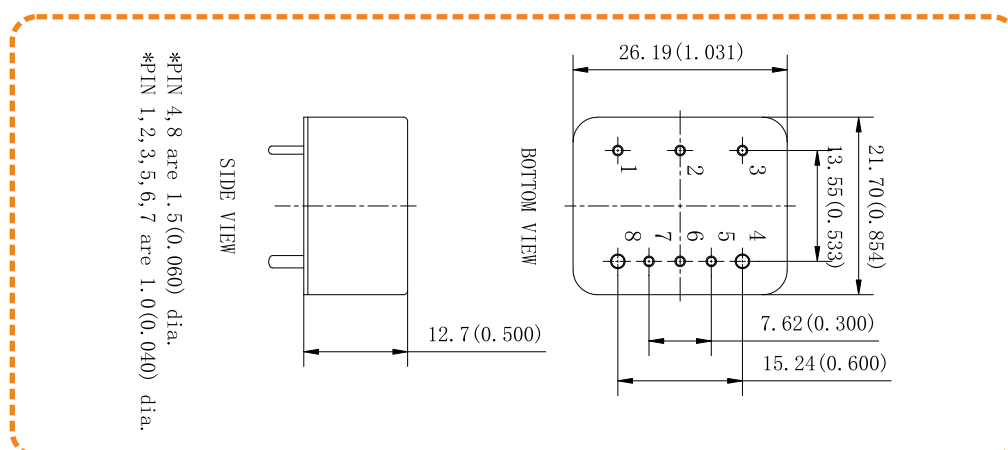
- Input voltage: 16 to 40Vdc
- Conversion efficiency: 87% at 28Vdc
- REMOTE ON/OFF function, with optional positive/negative logic control
- Overcurrent and short-circuit protection functions
- Input under-voltage protection and output over-voltage protection
- Input-output isolation voltage: 1500Vdc
- Operating temperature: -55° C to 100° C (M1)
-40° C~100° C (M3)
- Standard 1/32 brick: 26.19x21.70x 12.70mm
- Meet GJB 10164" General Specifications for Microcircuit Modules"SizeofProduct



Size of product

Specifications and models	Input voltage	Output voltage	Power	Productiveness	Development progress
YSBD24030xx05WNx2	16-40V	5V	40W	84.0%	Available stock
YSBD24030xx12WNx2	16-40V	12V	42W	85.0%	Available stock
YSBD24030xx28WNx2	16-40V	28V	42W	87.0%	Available stock

External dimensions



Low Voltage DC/DC Module — 1/16 Brick 150W Series

The 1/16-inch Brick 150W Series Low-Voltage DC/DC Module Power Supply features a five-sided metal enclosure with encapsulation and sealing, and direct-insertion terminals. It delivers high reliability, efficiency, power density, and low ripple noise. With standard 1/16-inch dimensions and fully domestic components, it is widely used in industrial control fields such as aviation, aerospace applications.

Product Features

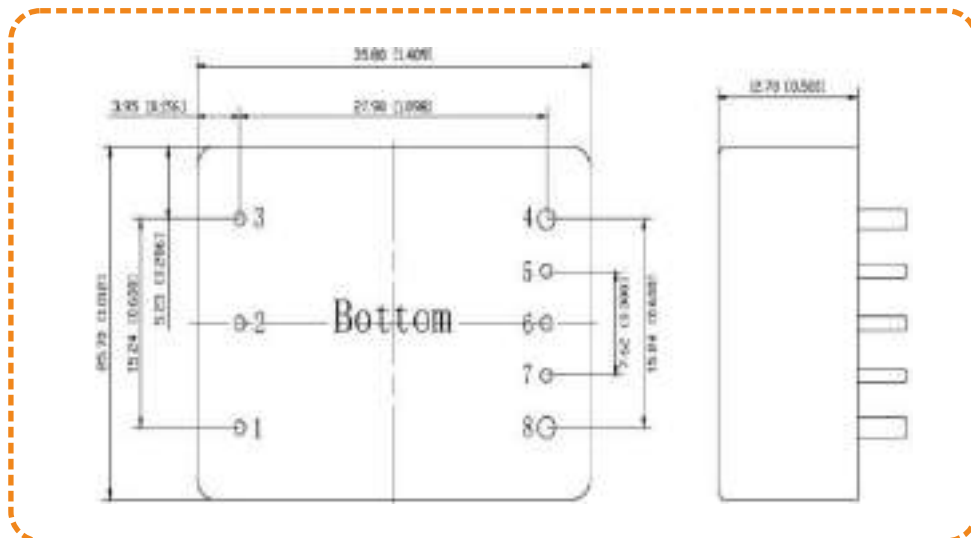
- Input voltage: 16 to 40Vdc
- Conversion efficiency: 90% at 28Vdc
- REMOTE ON/OFF function, with optional positive/negative logic control
- Overcurrent and short-circuit protection functions
- Input under-voltage protection and output over-voltage protection
- Input-output isolation voltage: 2250Vdc
- Operating temperature: -55°C to 100°C (M1)
 -40°C ~ 100°C (M3)
- Standard 1/16 brick: 36.00x26.20x 12.70mm
- Meet GJB 10164 "General Specifications for Microcircuit Modules"



Size of product

Specifications and models	Input voltage	Output voltage	Power	Productiveness	Development progress
YSBD28150xx05SNx2	16-40V	5V	150W	90.0%	In development
YSBD28150xx12SNx2	16-40V	12V	150W	91.0%	Available stock
YSBD28150xx28SNx2	16-40V	28V	150W	90.0%	Available stock

External dimensions



Low Voltage DC/DC Module — 1/8 Brick 350W Series

The 1/8-inch Brick 350W series low-voltage DC/DC high-power-density module power supply features a five-sided metal enclosure with encapsulation and sealing, and direct-insertion terminals. It delivers high reliability, efficiency, power density, and low ripple noise. With standard 1/8-inch dimensions and fully domestic components, it is widely used in industrial control fields such as aviation, aerospace applications.

Product Features

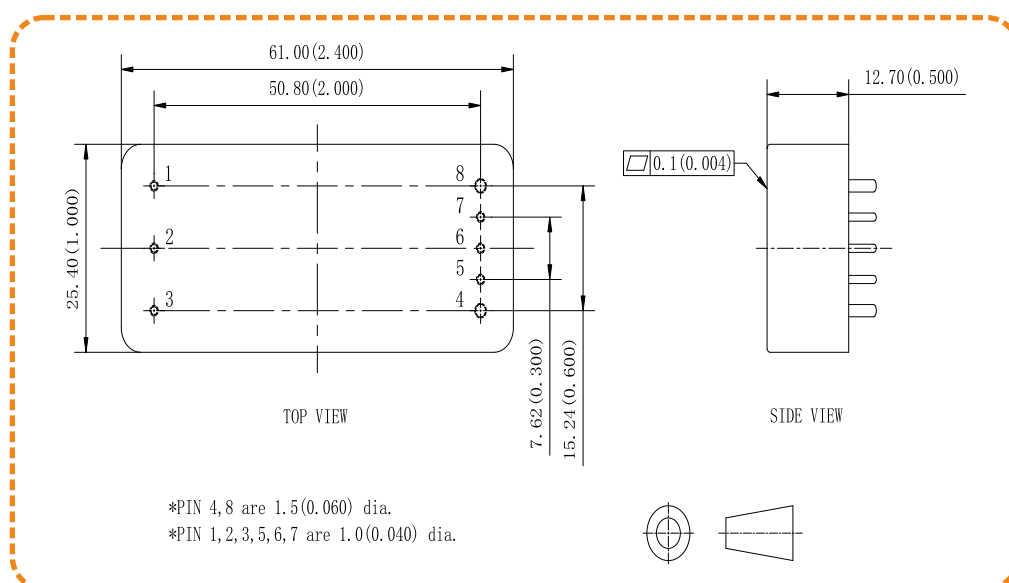
- Input voltage: 16 to 40Vdc
- Conversion efficiency: 90% at 28Vdc
- REMOTE ON/OFF function, with optional positive gative logic control
- Overcurrent and short-circuit protection functions
- Input under-voltage protection and output over-voltage protection
- Input-output isolation voltage: 2250Vdc
- Operating temperature: -55° C to 100° C (M1)
-40° C~100° C(M3)
- Standard 1/16 brick: 36.00x26.20x 12.70mm
- Meet GJB 10164 "General Specifications for Microcircuit Modules"



Size of product

Specifications and models	Input voltage	Output voltage	Power	Productiveness	Development progress
YSBD28350xx05ENx2	16-40V	12V	350W	92.0%	Available st-ock
YSBD28350xx24ENx2	16-40V	24V	350W	92.0%	Available stock
YSBD28350xx12ENx2	16-40V	28V	350W	92.0%	Available st-ock

External dimensions



Low Voltage DC/DC Module — 1/4 Brick 500W Series

The 1/4-inch brick 500W series low-voltage DC/DC module power supply features a five-sided metal enclosure with encapsulation and sealing, and direct-insertion terminals. It delivers high reliability, efficiency, power density, and low ripple noise. With standard 1/4-inch dimensions and fully domestic components, it is widely used in industrial control fields such as aviation, aerospace applications.

Product Features

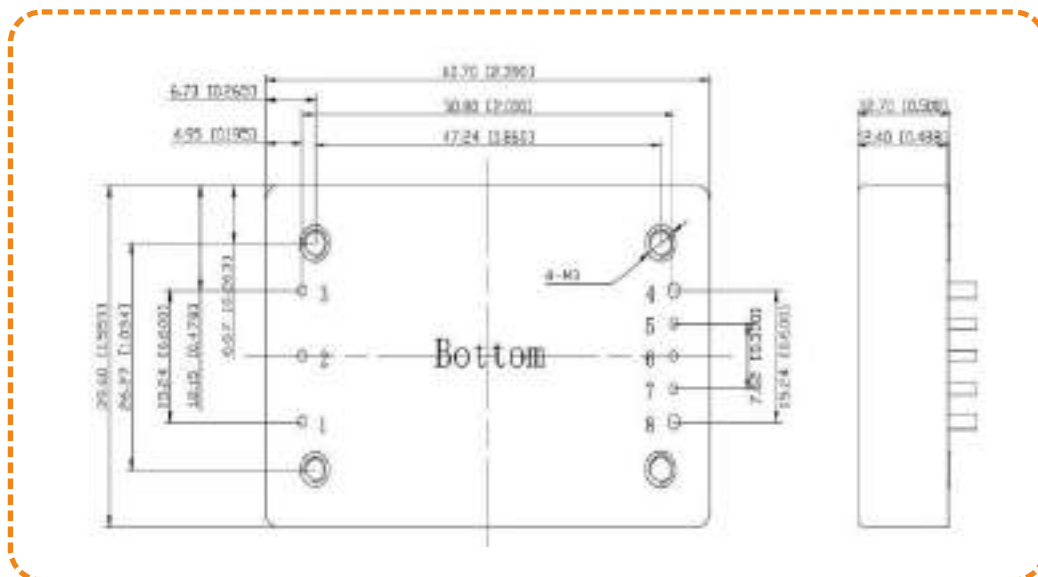
- Input voltage: 16 to 40Vdc
- Conversion efficiency: 92% at 28Vdc
- REMOTE ON/OFF function, with optional positive/negative logic control
- Overcurrent and short-circuit protection functions
- Input under-voltage protection and output over-voltage protection
- Input-output isolation voltage: 2250Vdc
- Operating temperature: -55° C to 100° C (M1)
-40° C~100° C (M3)
- Standard 1/4 brick: 60.70x 39.60x 12.70mm
- Meet GJB 10164
- Meet GJB 10164 "General Specifications for Microcircuit Modules"



Size of product

Specifications and models	Input voltage	Output voltage	Power	Productiveness	Development progress
YSBD28500xx12QNx2	16-40V	12V	500W	93.0%	Available stock
YSBD28500xx24QNx2	16-40V	24V	500W	92.0%	In development
YSBD28500xx28QNx2	16-40V	28V	500W	92.0%	In development

External dimensions



Low Voltage DC/DC Module — 1/2 Brick 800W Series

The 1/2 Brick 800W Series Low-Voltage DC/DC Module Power Supply features a five-sided metal enclosure with encapsulation and sealing, and direct-insertion terminals. It delivers high reliability, efficiency, power density, and low ripple noise. With standard 1/2 Brick dimensions and fully domestic components, it is widely used in industrial control fields such as aviation, aerospace applications.

Product Features

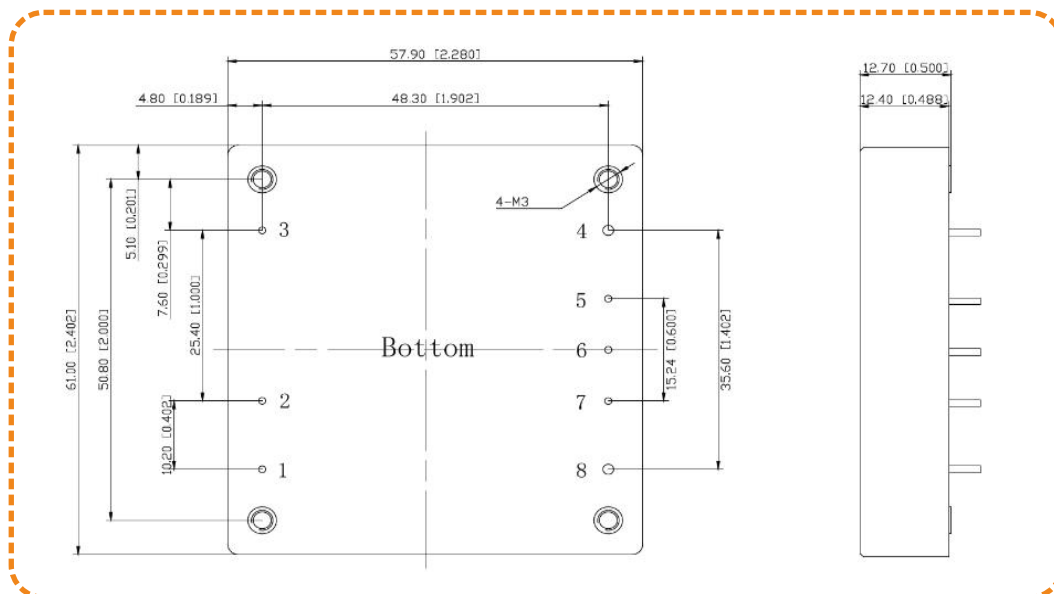
- Input voltage: 16 to 40Vdc
- Conversion efficiency: 90% at 28Vdc
- REMOTE ON/OFF function, with optional positive gative logic control
- Overcurrent and short-circuit protection functions
- Input under-voltage protection and output over-voltage protection
- Input-output isolation voltage: 2250Vdc
- Operating temperature: -55°C to 100°C (M1)
 -40°C ~ 100°C (M3)
- Standard 1/16 brick: 36.00x26.20x 12.70mm
- Meet GJB 10164 "General Specifications for Microcircuit Modules"



Size of product

Specifications and models	Input voltage	Output voltage	Power	Productiveness	Development progress
YSBD28800xx28HNx2	16-40V	28V	800W	94.0%	In development

External dimensions



Single-phase AC/DC module — 1/2 brick 500W series

The 1/2 brick 500W series AC/DC brick power supply features advanced digital control technology with a maximum efficiency of 93%. It is packaged in a five-sided metal enclosure with a sealed encapsulation process and direct-insertion terminals. The power supply boasts high reliability, high efficiency, high power density, and low ripple noise. With a 1/2 brick size and fully domestic components, it is widely used in avionics equipment, ground test equipment, and ground simulation equipment.

Product Features

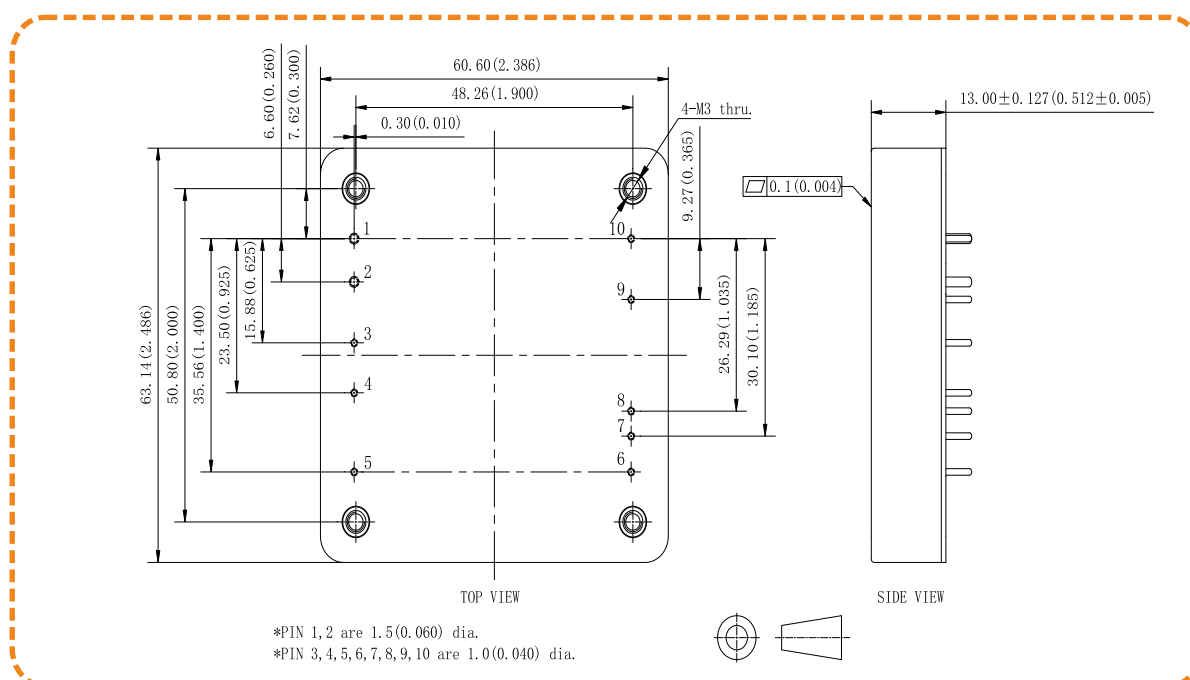
- isolated voltage regulator
- Input voltage: 85 to 264 Vac (single-phase)
- Input voltage frequency range: 47 to 63 Hz
- Output voltage: 28V
- Output power: 500W
- overshoot, overcurrent, short circuit and overheat protection
- 3000Vac insulation withstand voltage (input to output)
- Operating temperature: -55° C to 100° C
- 1/2 brick package: 63.14 x60.6 x 13.00mm
- Meet GJB 10164 "General Specifications for Microcircuit Modules"



Size of product

Specifications and models	Input voltage	Output voltage	Power	Productiveness	Development progress
YSB1P220500xx28HLx2	85-264V	28V	500W	93.0%	In development

External dimensions



Microchip Power Supply

YSPI28H Series

Product Features

- Isolation voltage regulation
- Ultra small size packaging
- Maximum volumetric power density: 334W/in³
- Weight: Only 7.8g
- Overvoltage, undervoltage, overcurrent, short circuit, and overheating protection
- 2250Vdc insulation withstand voltage
- Operating temperature: -55°C to 100°C
- HALF CHIP package: 16.5 x 22.0 x 6.73mm
- Compliance with SJ 20668 "General Specifications for Microcircuit Modules"



High integration



low EMI

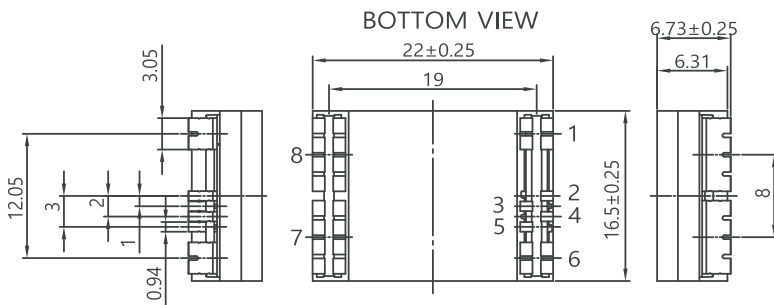
Isolation voltage re-
gulation

Small volume

Size of product

Specifications And Models	Input voltage	Output voltage	Adjustable Range	Output	Output Power	Productiveness	development progress
YSPI28H3V3M33L	16~50V	3.3V	2.97~3.63V	10A	33W	83.0%	In development
YSPI28H05M50L	16~50V	5.0V	4.00~5.50V	10A	50W	85.3%	Available stock
YSPI28H12M50L	16~50V	12V	9.60~13.2V	4.2A	50W	88.0%	Available stock
YSPI28H15M50L	16~50V	15V	12.0~16.5V	3.3A	50W	88.0%	In development
YSPI28H18M50L	16~50V	18V	14.4~19.8V	2.8A	50W	88.0%	In development
YSPI28H24M50L	16~50V	24V	22.4~30.8V	2.1A	50W	88.5%	In development
YSPI28H28M50L	16~50V	28V	22.4~30.8V	1.8A	50W	88.5%	In development
YSPI28H48M50L	16~50V	48V	36.0~52.8V	1.8A	50W	89.0%	In development
YSPI28H05M25L	16~50V	5.0V	4.00~5.50V	5.0A	25W	84.5%	Available stock
YSPI28H12M25L	16~50V	12V	9.60~13.2V	2.1A	25W	87.0%	Available stock

Outline Dimension



Pin number	Symbol	Function
1	+IN	Enter positive terminal
2	SGND	Signal ground
3	TM	Temperature monitoring terminal
4	TRIM	Pressure regulating end
5	ENABLE	Enable terminal
6	-IN	Enter the negative terminal
7	-OUT	Output negative terminal
8	+OUT	Output positive terminal

Naming Rule

YSPI	28	H	12	M	50	L	S	-
Series name	Input voltage	Encapsulated code	Output voltage	Temperature grade	Output power	Pin type	Parallel function	Version code
Isolated Voltage-Stabilizing Microchip Series	28:16-50V	H: HALF CHIP	05:5V12:12V	M: Tc: -55~100° C Ts: -65~100° C H: Tc: -40~100° C Ts: -55~100° C T: Tc: -40~100° C Ts: -40~100° C	50: 50W	L: Table sticker	P: Supports parallel operation S: Standalone operation	Default: Standard 01: Others

YSDCM270AC Series

Product Features

- Wide input isolation voltage regulator: 160V~420V
- High volumetric power density: 1040W/in³
- High weight power density: 17.4 W/g
- Weight: Only 28g
- Overvoltage, undervoltage, overcurrent, short circuit, and overheating protection
- Supports 8 parallel expansion units
- 4242Vdc insulation withstand voltage
- Operating temperature: -55°C to 100°C
- CHIP3623 package: 47.91 x 22.80 x 7.21 mm
- Compliance with SJ 20668 "General Specifications for Microcircuit Modules"



High integration



low EMI

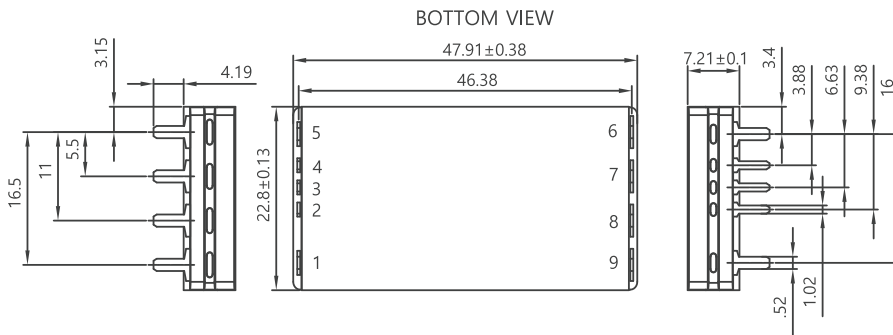
Isolation voltage re-
gulation

Small volume

Size of product

Specifications And Models	Input voltage	Output voltage	Adjustable Range	Output	Output Power	Productiveness	development progress
YSDCM270AC3V3M150T	160~420V	3.3V	3.0~3.6V	45.46A	150W	87.7%	Available stock
YSDCM270AC05M250T	160~420V	5V	4.0~5.5V	50A	250W	89.1%	Available stock
YSDCM270AC12M500T	160~420V	12V	7.2~13.2V	41.67A	500W	91.1%	Available stock
YSDCM270AC15M500T	160~420V	15V	9.0~16.5V	33.4A	500W	91.8%	Available stock
YSDCM270AC24M500T	160~420V	24V	14.4~26.4V	20.84A	500W	92.6%	Available stock
YSDCM270AC28M500T	160~420V	28V	16.8~30.8V	17.86A	500W	93.2%	Available stock
YSDCM270AC48M500T	160~420V	48V	28.8~52.8V	10.42A	500W	92.0%	In development

Outline Dimension



Pin number	Symbol	Function
1	+IN	Enter positive terminal
2	TR	Output voltage regulation
3	EN	Enable terminal
4	FT	Fault indication terminal
5	-IN	Enter the negative terminal
6	-OUT	Output negative terminal
7	+OUT	Output positive terminal
8	-OUT	Output negative terminal
9	+OUT	Output positive terminal

Naming Rule

YSDCM	270	AC	12	M	500	T	P	-
Series name	Input voltage	Encapsulated code	Output voltage	Temperature grade	Output power	Pin type	Parallel function	Version code
Isolated Voltage-Stabilizing Microchip Series	270:160~420V	AC:CHIP4623	05:5V12:12V	M: Tc: -55~100° C Ts: -65~100° C H: Tc: -40~100° C Ts: -55~100° C T: Tc: -40~100° C Ts: -40~100° C	250: 250w 500: 500W	T: plug-inmounting	P: Supports parallel operation S: Standalone operation	Default: Standard 01: Others

Microchip Power Supply

YSPRM28F Series

Product Features

- wide input wide output
- Maximum volumetric power density: 1702.7W/in³
- Maximum weight power density: 31.25W/g
- Weight: Only 16g
- Overvoltage, undervoltage, overcurrent, short circuit, and overheating protection
- Supports 5 parallel expansions
- Cascade JVTM Component Ratio Architecture
- Operating temperature: -55°C to 100°C
- FULL CHIP Package: 32.5x22.0x6.73mm
- Compliance with SJ 20668 "General Specifications for Microcircuit Modules"



high-power secret



low EMI



open end

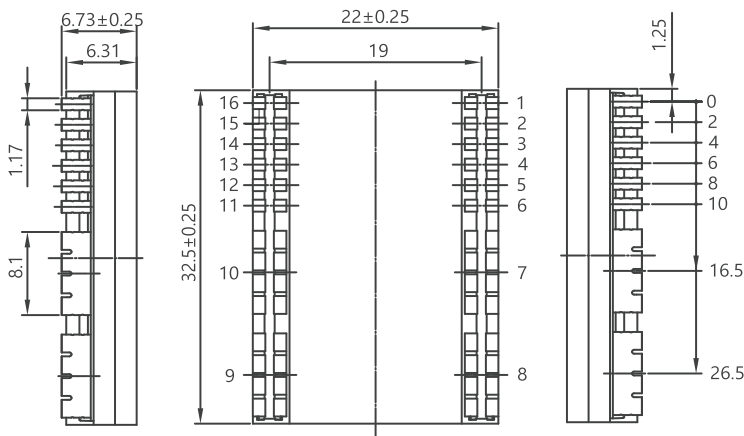


Proportional frame

Size of product

Specifications And Models	Input voltage	Output voltage	Adjustable Range	Output	Output Power	Productiveness	development progress
YSPRM28F36M120L	16~50V	36V	26V~50V	3.33A	120W	95.5%	Available stock
YSPRM28F36M240L	16~50V	36V	26V~50V	6.66A	240W	95.5%	In development
YSPRM28F24M500L	20~40V	24V	20V~40V	20.8A	500W	95%	Available stock

Outline Dimension



YSPRM28F36M120L、YSPRM28F36M240L

Pin number	Symbol	Function	Pin number	Symbol	Function
1	VC	VTM control	9	-OUT	Output negative terminal
2	PC	Primary winding control end	10	+OUT	Output positive terminal
3	TM	Dead end	11	CD	Voltage compensation
4	IL	Traffic limit settings	12	NC	Dead end
5	NC	Dead end	13	OS	Output voltage setting
6	PR	Parallel control	14	SG	Signal ground
7	+IN	Enter positive terminal	15	SC	Secondary side control terminal
8	-IN	Enter the negative terminal	16	VH	Auxiliary source

YSPRM28F24M500L

Pin number	Symbol	Function	Pin number	Symbol	Function
1	PR	Parallel control	9	-OUT	Output negative terminal
2	PC	Primary winding control end	10	+OUT	Output positive terminal
3	TRIM	Output voltage setting	11	VC	VTM control
4	NC	Empty	12	RE	Outer ring datum
5	NC	Empty	13	SG	Signal ground
6	AL	Adaptive loop control	14	IF	Current monitoring
7	+IN	Enter positive terminal	15	VS	Auxiliary source
8	-IN	Enter the negative terminal	16	VT	VTM temperature compensation

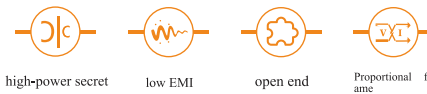
Naming Rule

YSPRM	28	F	36	M	120	L	-	-
Series name	Input voltage	Encapsulated code	Output voltage	Temperature grade	Output power	Pin type	Version code	Custom code name
Pre-stabilized Microcrystal Chip Series	28:16~50V	F:FULL CHIP	36:26~50V	M: Tc: -55~100° C Ts: -65~100° C H: Tc: -40~100° C Ts: -55~100° C T: Tc: -40~100° C Ts: -40~100° C	120: 120w 240: 240W 500: 500W	L: Surface-mounted T: Inserted	Default: Number A: Analog	Default: Standard 01: Others

YSVTM48F Series

Product Features

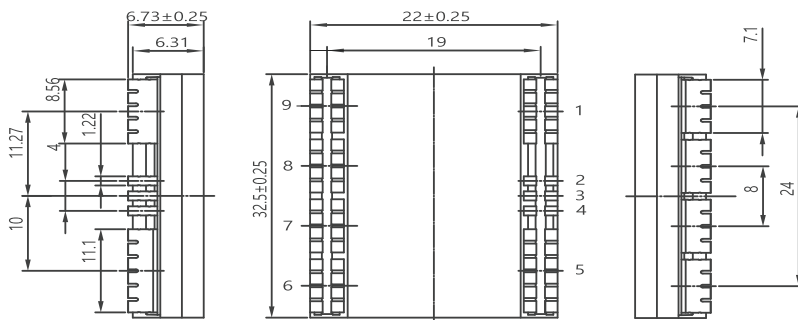
- isolated fixed voltage transformer ratio
- High volumetric power density: 1114W/in³
- High weight power density: 22W/g
- Weight: Only 16g
- Overvoltage, undervoltage, overcurrent, short circuit, and overheating protection
- Supports 8 parallel expansion units
- Cascade JPRM Component Ratio Architecture
- Operating temperature: -55°C to 100°C
- FULL CHIP Package: 32.5x22.0x6.73mm
- Compliance with SJ 20668 "General Specifications for Microcircuit Modules"



Size of product

Specifications And Models	Input voltage	Output voltage	Adjustable Range	Output	Output Power	Productiveness	development progress
YSVTM48F04M50A	26~55V	4V	12:1	50A	200W	94.0%	In development
YSVTM48F06M40A	26~55V	6V	8:1	40A	240W	94.6%	Available stock
YSVTM48F08M30A	26~55V	8V	6:1	30A	240W	95.4%	Available stock
YSVTM48F9V6M25A	26~55V	9.6V	5:1	25A	240W	95.8%	In development
YSVTM48F12M25A	26~55V	12V	4:1	25A	300W	95.8%	Available stock
YSVTM48F16M15A	26~55V	16V	3:1	15A	240W	95.0%	Available stock
YSVTM48F24M12A5	26~55V	24V	2:1	12.5A	300W	95.5%	In development
YSVTM48F32M9A5	26~55V	32V	3:2	9.5A	300W	96.2%	In development

Outline Dimension



Pin number	Symbol	Function
1	+IN	Enter positive terminal
2	TM	Temperature detection
3	VC	Modular control
4	PC	Primary winding control
5	-IN	Enter the negative terminal
6	-OUT	Output negative terminal
7	+OUT	Output positive terminal
8	-OUT	Output negative terminal
9	+OUT	Output positive terminal

Naming Rule

YSVTM	48	F	06	M	40A	L	-	-
Series name	Input voltage	Encapsulated code	Output voltage	Temperature grade	Output	Pin type	Version code	Custom code name
Isolated Non-Stable Voltage Microcrystal Chip Series	48:26~55V	F:FULL CHIP	06:6V 08:8V 9V6:9.6V	M: Tc: -55~100° C Ts: -65~100° C H: Tc: -40~100° C Ts: -55~100° C T: Tc: -40~100° C Ts: -40~100° C	12A5:12.5A 40A:40A	L: Surface-mounted T: Inserted	Default: Number A: Analog	Default: Standard 01: Others

YSBCM384WEC Series

Product Features

- High Voltage High Input Isolation Fixed Ratio Transformer
- High volumetric power density: 2352W/in³
- High weight power density: 40W/g
- Weight: Only 41g
- Overvoltage, undervoltage, overcurrent, short circuit, and overheating protection
- Supports 8 parallel expansion units
- Supports two-way communication
- Operating temperature: -55°C to 100°C
- CHIP6123 package: 61.0x 25.14 x 7.21mm
- Compliance with SJ 20668 "General Specifications for Microcircuit Modules"



high-power secret



fixed variable ratio



low EMI

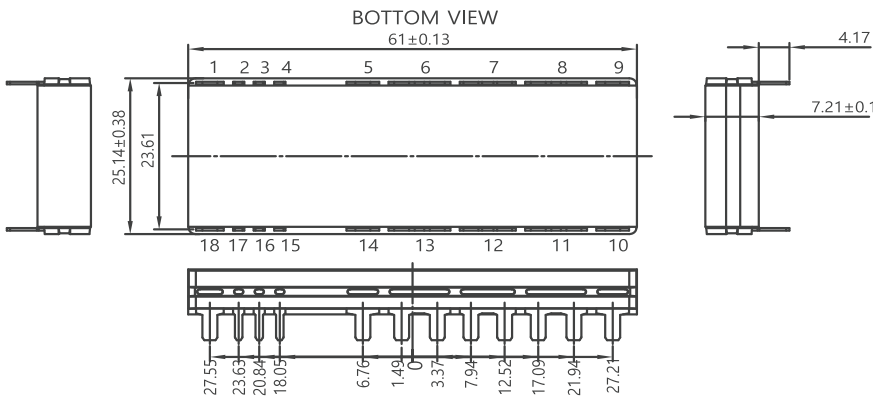


open end

Size of product

Specifications And Models	Input voltage	Output voltage	Adjustable Range	Output	Output Power	Productiveness	development progress
YSBCM384WEC12M68A	260~410V	12V	32:1	68A	816W	97.1%	Available stock
YSBCM384WEC12M125A	260~410V	12V	32:1	125A	1500W	96.4%	Available stock
YSBCM384WEC24M62A5	260~410V	24V	16:1	62.5A	1500W	96.5%	Available stock

Outline Dimension



Pin number	Symbol	Function
1	-IN	Enter the negative terminal
2	VAUX	Auxiliary source end
3	EN	Enable terminal
4	TM	Temperature monitoring terminal
5,7,9,10,12,14	+OUT	Output positive terminal
6,8,11,13	-OUT	Output negative terminal
15,16,17,18	+IN	Enter positive terminal

Naming Rule

YSBCM	384W	EC	12	M	125A	T	R	-
Series name	Input voltage	Encapsulated code	Output voltage	Temperature grade	output	Pin type	Version code	Custom code name
Isolated Non-Stable Voltage Microcrystal Chip Series	384W: 260~410V 28:16~50V	EC:CHIP6123 (Long edge out stitch)	12:12V 24:24V	M: Tc: -55~100° C Ts: -65~100° C H: Tc: -40~100° C Ts: -55~100° C T: Tc: -40~100° C Ts: -40~100° C	68A:68A 125A:125A 62A5:62.5A	T: plug-inmounting	0: Analog control 1: PMBUS control R: inverse an-alog P: Reverse PMBUS	Default: Standard 01: Others

YSDCM270AFL Series

Product Features

- Metal casing enhances heat dissipation
- Wide input isolation voltage regulator: 160V~420V
- High volumetric power density: 612W/in³
- Weight: 45g
- Overvoltage, undervoltage, overcurrent, short circuit, and overheating protection
- Supports 8 parallel expansion units
- 4242Vdc insulation withstand voltage
- Operating temperature: -55°C to 90°C
- 4623 Metal flange enclosure: 65.0x27.2x9.8mm
- Compliance with SJ 20668 "General Specifications for Microcircuit Modules"



strong heat dissipation



high power



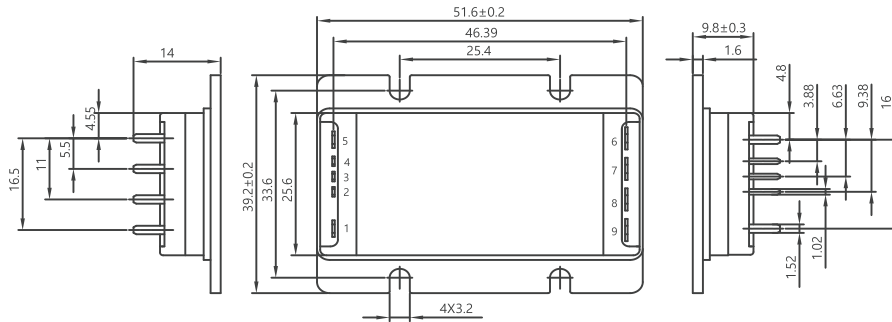
low EMI

Isolation voltage reg-
ulation

Size of product

Specifications And Models	Input voltage	Output voltage	Adjustable Range	Output	Output Power	Productiveness	development progress
YSDCM270AFL3V3M150T	160~420V	3.3V	3.0~3.6V	45.46A	150W	87.7%	In development
YSDCM270AFL05M250T	160~420V	5V	4.0~5.5V	50A	250W	89.1%	In development
YSDCM270AFL12M500T	160~420V	12V	7.2~13.2V	41.67A	500W	91.1%	Available stock
YSDCM270AFL15M500T	160~420V	15V	9.0~16.5V	33.4A	500W	91.8%	Available stock
YSDCM270AFL24M500T	160~420V	24V	14.4~26.4V	20.84A	500W	92.6%	Available stock
YSDCM270AFL28M500T	160~420V	28V	16.8~30.8V	17.86A	500W	93.2%	Available stock
YSDCM270AFL48M500T	160~420V	48V	28.8~52.8V	10.42A	500W	92.0%	In development

Outline Dimension



Pin number	Symbol	Function
1	+IN	Enter positive terminal
2	TR	Output voltage regulation
3	EN	Enable terminal
4	FT	Fault indication terminal
5	-IN	Enter the negative terminal
6	-OUT	Output negative terminal
7	+OUT	Output positive terminal
8	-OUT	Output negative terminal
9	+OUT	Output positive terminal

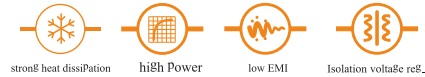
Naming Rule

YSDCM	270	AFL	12	M	500	T	P	-
Series name	Input voltage	Encapsulated code	Output voltage	Temperature grade	Output power	Pin type	Parallel function	Version code
Isolated Voltage-Stabilizing Microchip Series	270:160~420V	AFL: 4623 Metal Flange Shell	12:12V 48:48V	M: Tc: -55~100° C Ts: -65~100° C H: Tc: -40~100° C Ts: -55~100° C T: Tc: -40~100° C Ts: -40~100° C	400:400W 500:500W 600:600W	L: Surface-mounted T: Inserted	Default: Num- ber A: Analog	Default: Standard 01: Others

YSDCM300AFL Series

Product Features

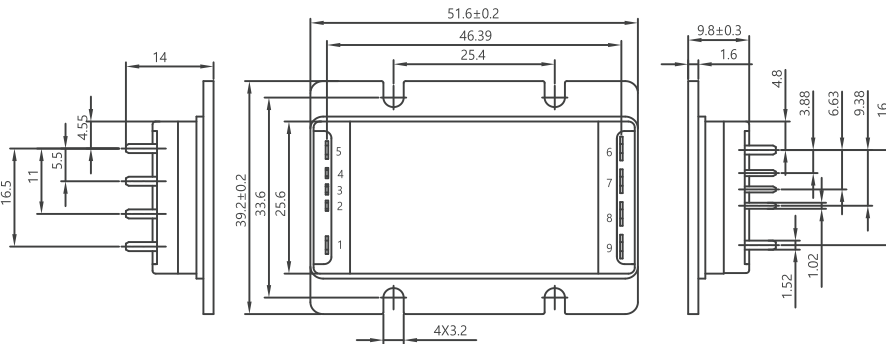
- Metal casing enhances heat dissipation
- Wide input isolation voltage regulator: 200V~420V
- High volumetric power density: 612W/in³
- Weight: 45g
- Overvoltage, undervoltage, overcurrent, short circuit, and overheating protection
- Supports 8 parallel expansion units
- 4242Vdc insulation withstand voltage
- Operating temperature: -55°C to 90°C
- 4623 Metal flange enclosure: 65.0x27.2x9.8mm
- Compliance with SJ 20668 "General Specifications for Microcircuit Modules"



Size of product

Specifications And Models	Input voltage	Output voltage	Adjustable Range	Output	Output Power	Productiveness	development progress
YSDCM300AFL3V3M150T	200~420V	3.3V	3.0~3.6V	45.46A	150W	87.7%	In development
YSDCM300AFL05M250T	200~420V	5V	4.0~5.5V	50A	250W	89.1%	In development
YSDCM300AFL12M500T	200~420V	12V	7.2~13.2V	41.67A	500W	91.1%	Available stock
YSDCM300AFL15M500T	200~420V	15V	9.0~16.5V	33.4A	500W	91.8%	Available stock
YSDCM300AFL24M500T	200~420V	24V	14.4~26.4V	20.84A	500W	92.6%	Available stock
YSDCM300AFL28M500T	200~420V	28V	16.8~30.8V	17.86A	500W	93.2%	Available stock
YSDCM300AFL48M500T	200~420V	48V	28.8~52.8V	10.42A	500W	92.0%	In development
YSDCM300AFL24M600T	200~420V	24V	14.4~26.4V	25A	600W	92.6%	Available stock

Outline Dimension



Pin number	Symbol	Function
1	+IN	Enter positive terminal
2	TR	Output voltage regulation
3	EN	Enable terminal
4	FT	Fault indication terminal
5	-IN	Enter the negative terminal
6	-OUT	Output negative terminal
7	+OUT	Output positive terminal
8	-OUT	Output negative terminal
9	+OUT	Output positive terminal

Naming Rule

YSDCM	300	AFL	12	M	500	T	P	-
Series name	Input voltage	Encapsulated code	Output voltage	Temperature grade	Output power	Pin type	Parallel function	Version code
Isolated Voltage-Stabilizing Microchip Series	300:200~420V	AFL: 4623 Metal Flange Shell	05:5V 12:12V	M: Tc: -55~90° C Ts: -65~100° C H: Tc: -40~90° C Ts: -55~100° C T: Tc: -40~100° C Ts: -40~100° C	250:250W 500:500W	T: plug-immounting	P: Supports parallel operation S: Standalone operation	Default: Standard 01: Others

General-Purpose Power Supply Module

Brick-type power supply (AC-DC module)



	YSACG10S50CH	YSAC42S12CH
Input voltage	90VAC~290V AC	90V AC~290V AC
Output voltage	50V DC	12V DC
Output power	500W	500W
Dimensions (length*width*height)	86.0*45.0*12.8mm	86.0*45.0*12.8mm
Productiveness	94%	91%

Brick Power Supply (DC-DC Module)



	YSGBS20S5V5-4E	YSGBE30S3V3-E	YSGDE25S12B-E	YSGDE25S12B-PE
Input voltage	36V DC~75V DC	36V DC~75V DC	36V DC~75V DC	36V DC~75V DC
Output voltage	5.5V DC	3.3VDC	12V DC	12V DC
Output power	100W	100W	300W	300W
Dimensions (length*width*height)	33.3*23.1*9.9mm (Standard 1/16 brick)	57.9*22.9*10.3 mm (Standard 1/8 brick)	58.4*22.9*12.1 mm (Standard 1/8 brick)	58.4*22.9*13.2 mm (Standard 1/8 brick)
Productiveness	91.5%	92.5%	94.2%	94.2%
Topology structure	Isolated type	Isolated type	Isolated type	Isolated type



	YSGDE25S12-E	YSGDE33S12B-4	YSGDQ54S12B-4PD	YSGDQ54S12B-4A
Input voltage	36~75Vdc	36V DC~75V DC	36V DC~75V DC	36V DC~75V DC
Output voltage	12V DC	12V DC	12V DC	12V DC
Output power	300W	400W	650W	650W
Dimensions (length*width*height)	57.9*22.9*8.9 mm (Standard 1/8 brick)	58.4*22.9*13.2 mm (Standard 1/8 brick)	57.9*36.8*13.4 mm (Standard 1/4 brick)	57.9*36.8*13.4 mm (Standard 1/4 brick)
Productiveness	94.2%	95%	95%	95.5%
Topology structure	Isolated type	Isolated type	Isolated type	Isolated type

General-purpose power supply module

Brick Power Supply (DC-DC Module)



	YSGDQ74S10V8B-4	YSGDQ75S12B-4Q	YSGDQ100S12B-4P
Input voltage	36VDC~75V DC	36VDC~75VDC	36V DC~72V DC
Output voltage	10.8VDC	12V DC	12V DC
Output power	800W	900W	1200W
Dimensions (length*width*height)	57.9*36.8*13.4 mm (Standard 1/4 brick)	57.9*36.8*13.4 mm (Standard 1/4 brick)	57.9*40.8*14.8mm (non-standard 1/4 brick)
Productiveness	95.5%	96.5%	95%
Topology structure	Isolated type	Isolated type	Isolated type

General-purpose power supply module

Chip-level power supply (PSiP module)



	YSNAE03S03-B	YSNAE12S03-B	YSNAM03S06-D	YSNAM12S06-D	YSNAE12S17-B	YSNAE12S20-C
Input voltage	3.0V DC~5.75V DC	6.3V DC~14V DC	3.0V DC~5.75V DC	9.0V DC~14V DC	3.0V DC~14V DC	3.0V DC~14V DC
Maximum output current	3A	3A	6A	6A	17A	20A
Output power	0.8V DC~3.7V DC	0.8V DC~5.2V DC	0.9V DC~3.7V DC	0.7V DC~5.4V DC	0.6V DC~5.5V DC	0.6V DC~5.5V DC
Dimensions (length*width*height)	3.0*2.8*1.6 mm	3.0*2.8*1.6 mm	8.0*8.0*4.0 mm	7.0*7.0*4.0 mm	7.0*7.0*6.0 mm	11.0*11.0*4.0 mm
Productiveness	93.5%	92%	96.5%	93.5%	92%	92%

Product model	Input voltage	Output mode	Output voltage	Maximum output current	Switching frequency	Dimensions (length*width*height)
 YSNDE12D15R-S	3V DC~15V DC	1+1	Vout ≤ 1.8 V	15A (Single channel)	600kHz	11.1mm*7.1mm *4.0mm
		1+1	Vout > 1.8 V	10A (single channel)	1000kHz	
		2+0	Vout ≤ 1.8 V	28A	600kHz	
		2+0	Vout > 1.8 V	18A	1000kHz	
		4+0	Vout ≤ 1.8 V	50A	600kHz	
		4+0	Vout > 1.8 V	35A	1000kHz	

AVS Source



	YSNDD12S55-P1	YSNDD12S55-C1
Input voltage	9VDC~14VDC	9VDC~14VDC
Output voltage	The voltage range of 0.5V DC to 1.2V DC can be regulated via the vBOOT pin or PMBUS.	/
Output	Nx50A	N=6/8/10/12/14/16 (number of power modules)
Size	27.0mmx18.0mmx3.7mm (1.06in.x0.71in.x0.14in.)	26.3mmx23.2mmx3.2mm (1.04in.x0.91in.x0.13in.)
Productiveness	88.0% (TA=25°C, Vin=12V, Vout=1.0V, Iout=300A, output from power module only)	/

Server and Communication Power Module

Brick Power Supply (DC-DC Module)



	YSGDC800D2854-PC	YSGDC800T5054-UC	YSGDC39528-PE	YSGDC1K5D5023-PD
Input voltage	36VDC~60VDC	36VDC~60VDC	34VDC~72VDC	34VDC~72VDC
Output voltage	28V DC/5.4V DC	50V DC/5.4V DC/-9.5V DC	28V DC	50V DC/23V DC
Output power	800W	800W	1100W	1500W@50VDC; 5.5W@23VDC
Dimensions (length*width*height)	64.8*50.0*9.5mm (1.5 times 1/4 brick)	64.8*50.0*12.5mm (1.5 times 1/4 brick)	64.8*50.0*9.7mm (1.5 times 1/4 brick)	64.8*50.0*9.7mm (1.5 times 1/4 brick)
Productiveness	95%	95%	95%	96%
Topology structure	Non-isolation type	Non-isolation type	Non-isolation type	Non-isolation type



	YSGDC75512-PD
Input voltage	34VDC~72VDC
Output voltage	12V DC
Output power	900W
Dimensions (length*width*height)	64.8x42.0x9.5mm
Productiveness	95%
Topology structure	Isolated type

VPX Source

- High reliability, modular power solutions that comply with **VITA 46/48/65** standards
- It Meets GJB181B2012 and provides high power density and strong antijamming power supply support for airborne signal processing module.
- High power density integrated design:
550W high-power multi-output, standard 3U card structure
- Health management features:
Real-time monitoring of power input and output
- Robust protection features:
It has the functions of anti-reverse and anti-surge, and is compatible with the software and hardware enabling control.

technical parameter

Project	Ask
Import	28Vdc+20%
output	12V35A、28V5A、24V0.8A
Power	550W
Function	communication, enable control, complete protection, etc.422

Practical Application



Custom-Made Localized Power Supply Components

Power supply modules are widely utilized in industrial systems, offering customized multifunctional power solutions tailored to user needs. These products meet power supply requirements for diverse applications including airborne systems, automotive equipment, and communication devices. The core architecture comprises input rectifier circuits, EMI filtering circuits, surge suppression circuits, energy storage circuits, DC/DC power modules, output filtering circuits, along with comprehensive input/output protection and monitoring mechanisms. Characterized by high reliability, electromagnetic compatibility, replaceability, and versatile functionality, these modules deliver robust performance across industrial environments.

Product Example 1

This series of power supplies employs PCB surface-mount technology with flange installation, featuring power components widely used in industrial systems. Custom-designed as multifunctional system power solutions, these products meet power supply requirements for aircraft, automotive, and communication equipment. The system comprises key components including input rectifier circuits, EMI filtering circuits, surge suppression circuits, energy storage circuits, DC/DC power modules, output filtering circuits, and various input/output protection/detection circuits. Characterized by high reliability, electromagnetic compatibility, replaceability, and versatility, the products utilize metal enclosures with potting encapsulation technology.



Product Example 2



Standard 3U size with V PX connector interface, compliant with VITA62 standards. Features IC communication functionality, fault isolation capability, input undervoltage protection, output overvoltage protection, output overcurrent and short-circuit protection, overtemperature protection, and output parallel current sharing, meeting electromagnetic compatibility requirements such as GJB181A, GJB151A, CE102, CS101, CS114, CS115, and CS 116.

Product Example 3

This series of power supplies employs PCB surface-mount technology with flange installation methods. The power components are widely used in industrial systems, offering customized multifunctional system power solutions for users. Compliant with power supply requirements for aircraft, automotive, and communication equipment, the products primarily consist of input rectifier circuits, EMI filtering circuits, surge suppression circuits, DC/DC power modules, output filtering circuits, and various input/output protection/detection circuits. Featuring high reliability, electromagnetic compatibility, replaceability, and versatility, they utilize metal enclosures with potting encapsulation technology.



YS620

Gain Programmable, High Performance Instrument Amplifier

YS620 is a high performance gain programmable instrumentation amplifier with a wide frequency range and a high CMRR. The CMRR of YS620 drops at a few hundred hertz, but it can maintain a high CMRR of more than 80dB at a frequency of less than 10kHz when the gain is 1. The excellent CMRR performance of YS620 can suppress the broadband interference and harmonics, which greatly simplifies the filter requirements. With its low offset voltage, low offset drift, low gain drift, high gain precision, and high CMRR characteristics, this chip is ideal for applications requiring optimal DC performance (e.g., bridge circuits), the perfect choice for number adjustment. Programmable gain offers users design flexibility, with gain adjustable from 1 to 1000 using a single resistor. The YS620 supports both single and dual power supply, making it ideal for applications requiring $\pm 10V$ input voltage.

Standard model number: AD620

Quality grade: GJB7400 enterprise military standard

Packaging form: plastic sealed SOP8, MSOP8

Performance index:

WIDE VOLTAGE RANGE: $12.3V \sim +18V$

Input regulation voltage: maximum value of $4.0V$

input temperature drift: maximum $0.3 \mu V/^{\circ}C$

input bias current: maximum $0.5nA$

Low input voltage noise: maximum $7 nV/Hz$

Equivalent input noise: typical value of $0.2 \mu V_{pp}(0.1 Hz \sim 10Hz)$

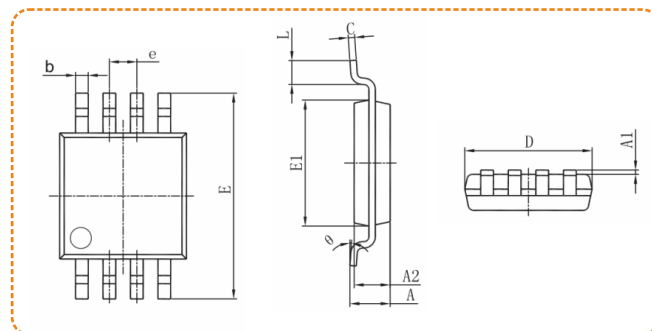
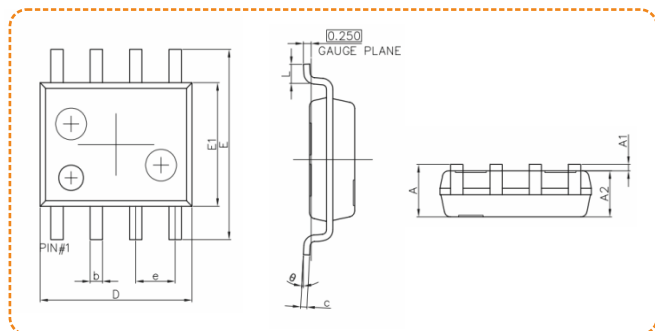
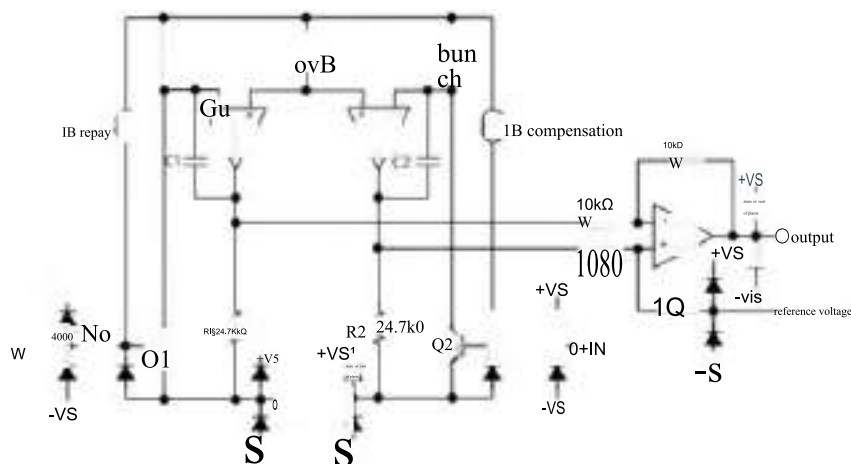
CMRR: $80dB(DC/80dB(10kHz)(G=1))$

Product features:

Small signal-3dB bandwidth: $1000kHz (G=1)$

swing rate: $2.4V/\mu s$

gain through a single external resistor ($G=1 \sim 1000$)



SOP8 Package

Characteristic	Size (mm)		
	Least value	Representative value	Crest value
A	1.45	1.60	1.75
A1	0.10	0.18	0.25
A2	1.35	1.45	1.55
b	0.33	0.42	0.51
C	0.17	0.21	0.25
D	4.70	4.90	5.10
E	5.80	6.00	6.20
E1	3.80	3.90	4.00
e	1.27 (BSC)		
θ	0°	4°	8°

MSOP8 Encapsulation

Characteristic	Size (mm)		
	Least value	Representative value	Crest value
A			1.10
A1	0.02	0.09	0.15
A2	0.75	0.85	0.95
b	0.25	0.32	0.38
C	0.09	0.16	0.23
D	2.90	3.00	3.10
e	0.65 (BSC)		
E	4.75	4.90	5.05
E1	2.90	3.00	3.10
L	0.40	0.60	0.80
θ	0°	3°	6°

YS400

Four-Channel Low Offset and Low Power Consumption Operational Amplifier

The YS400 is a high-performance, low-power precision four-channel operational amplifier featuring a DIP1414-pin ceramic dual-in-line package, with performance equivalent to ADI's OP400 precision operational amplifier. It operates at $\pm 15\text{V}$ (with an absolute maximum rated voltage of $\pm 20\text{V}$).

Input offset voltage $\leq 150\mu\text{V}$, input bias current $\leq 6\text{nA}$, input offset current $\leq 1\text{nA}$, common-mode rejection ratio $\geq 120\text{dB}$, power supply rejection ratio $\leq 1.8\mu\text{V/N}$, connected to $1\text{ k}\Omega$ resistor.

The open-loop gain exceeds 3000V/mV under ω load. This product achieves ultra-low input offset voltage through in-circuit calibration, eliminating the need for external zero adjustment. With a single-channel power consumption below $725\mu\text{A}$ and a total static current of less than most precision operational amplifiers, it is ideal for precision low-power signal acquisition and processing systems. Operating temperature (TA): -55°C to 125°C .

Benchmark model: OP400

Quality grade: GJB597B-2012 Grade B, GJB7400 Grade N1
enterprise military standard

Packaging: plastic encapsulated SOIP16/ceramic CDIP14

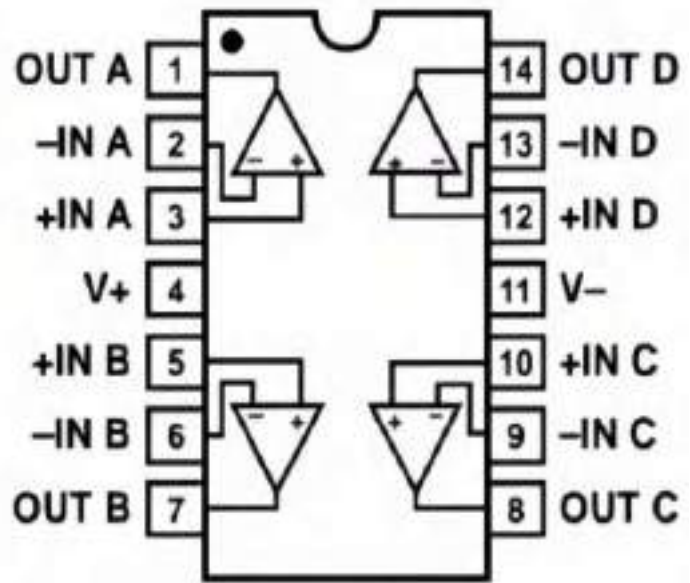
Performance index:

Low input offset voltage: $\leq 150\mu\text{V}$

Low temperature drift: $\leq 1.2\mu\text{V}/^\circ\text{C}$

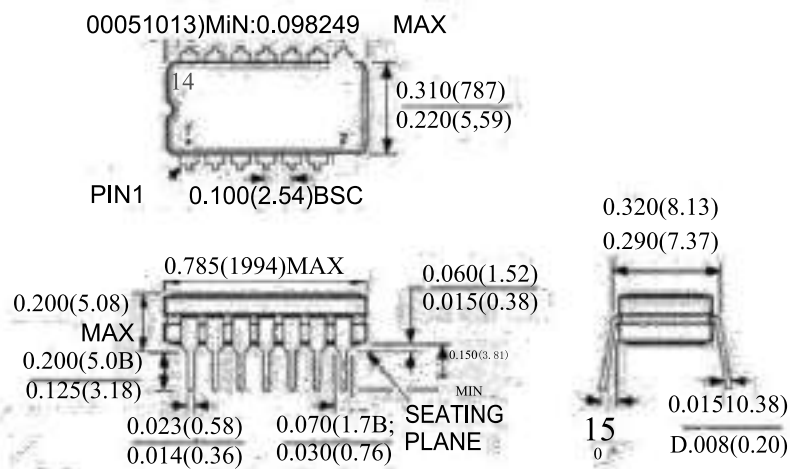
Low operating current: $< 725\mu\text{A}/\text{channel}$

High gain: $> 3000\text{ V/mV}$



Product features:

The core metrics can fully match those of foreign products.



Shell and tube size diagram

YS8032

Low Power Rail-to-Rail Input/output Operational Amplifier

The YS8032 is a dual-channel single-supply voltage feedback amplifier powered by a +5V single power supply, featuring rail-to-rail input and output characteristics with a supply voltage of +2.7V, +5V, and $\pm 5V$. With a working current of less than 1100 μA per channel, it features high-speed performance, a small signal bandwidth of 65 MHz, and a voltage swing of 22 V/ μs . The input voltage range extends up to 200 mV beyond the power rails, while the output voltage swing remains within 50 mV from the power rails. When using a +5V power supply, it is ideal for single-supply ADC buffers with a 2V peak-to-peak output and 1 MHz frequency.

Reference model: AD8032

Quality level: Enterprise military standard

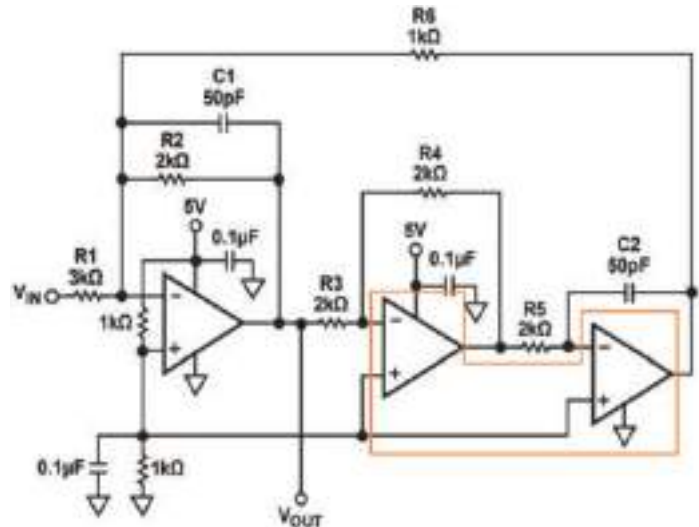
Encapsulation form: SOP8

Performance index:

Low power consumption: 1100 A per channel.

Supports power supply voltages: +2.7V, +5 V, and I

5V; High-speed, fast setup (5V):

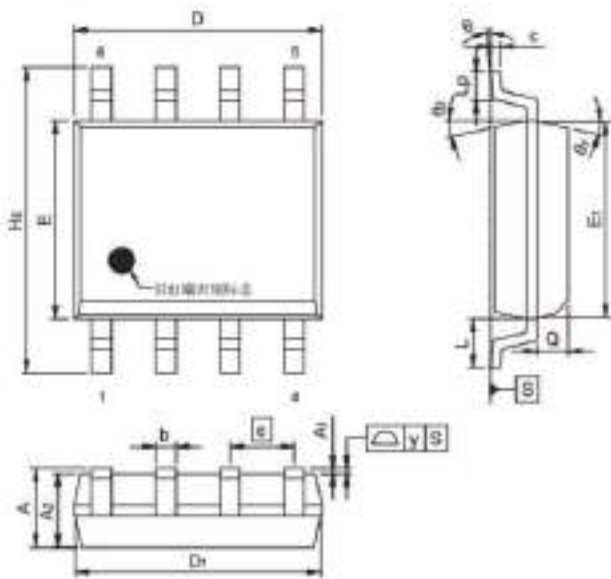
-3dB bandwidth: 65 MHz ($G=+1$);The swing rate was 22 V/ μs .

Product features:

Track-to-track input and output

The core metrics can fully match those of foreign products.

unit : mm



Size Symbol	numeric value			Size Symbol	numeric value		
	Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
A	1.50	1	1.75	b	0.35	1	0.45
A1	0.10		0.25	C	0.15	1	0.25
A2	1.40	1	1.50	e	1	1.27	1
Q	0.58	1	0.68	y	1	1	0.15
D	4.80	1	5.00	Lp	0.40	1	0.80
D1	4.75	1	4.95	L	1	1.05	1
E	3.80	1	4.00	è	0°	1	8°
E1	3.75	1	3.95	è1	1	12°	1
HE	5.80	1	6.20	è2	1	12°	1

YS8042

High Bandwidth Rail-to-Rail DAC Driver

The YS8042 is a high-speed voltage feedback amplifier that operates on +3V, +5V, or $\pm 5V$ power supplies. It delivers an output voltage swing of up to 30 mV across all power rails, ensuring a wide dynamic range. Designed for professional video electronics such as cameras, video switchers, and high-speed portable devices, this amplifier excels in low distortion and rapid setup. Its low distortion and fast setup make it an ideal buffer for single-supply, high-speed analog-to-digital converters (ADCs). When powered by a single 5V supply, the YS8042 achieves a 120 MHz bandwidth and 130 V/ μ s voltage swing rate, making it suitable for various high-speed applications requiring single-supply voltages from +3.3V to +10V or dual-supply voltages up to $\pm 5V$.

Referencemodel: AD8042

Qualitygrade: GJB7400 N1 or enterprise and military
standard

Encapsulationform: SOP8

Performance index:

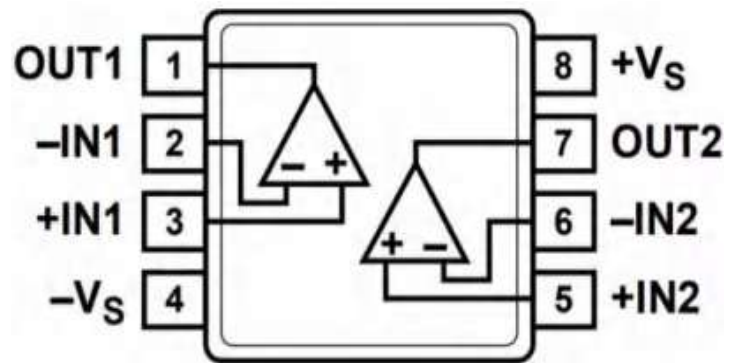
Low power consumption: 6.0mA per amplifier.

Supports power supply voltages: +3 V, +5 V, and ± 5 V.

High-speed, fast setup (5 V):

-3 dB bandwidth: 120 MHz ($G=+1$);

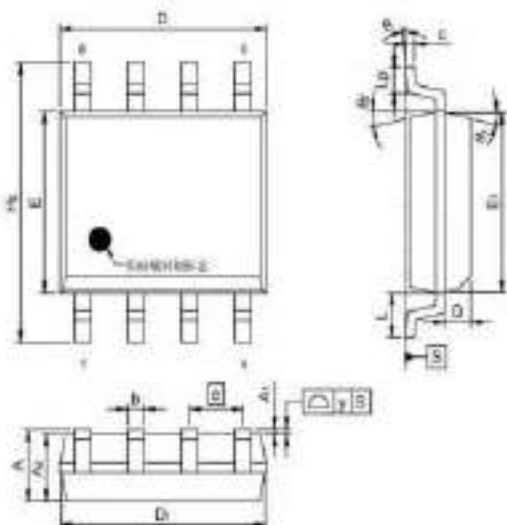
The swing rate is 130 V/ μ s.



Product features:

track-to-track input and output

The core metrics can fully match those of foreign products.



Shell @-@ SIZE CHART

Unit: millimeters

Size Symbol	numeric value			Size Symbol	numeric value		
	Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
A	1.500	-	1.750	E	1.270(BSC)		
A	0.100	-	0.250	E	3.800	-	4.000
A	1.400	-	1.500	H	5.800	-	6.200
B	0.350	-	0.450	Lp	0.400	-	0.800
C	0.150	-	0.250	θ	0°	-	8°
	4.800	-	5.000				

YS8138

Low Distortion Differential Mode-Conversion Driver

The YS8042 is a high-speed voltage feedback amplifier, powered by +3V, +5V, or $\pm 5V$ supplies. Its output voltage swing can be extended within 30mV of each supply rail to provide a wide dynamic range. Suitable for professional video electronic equipment such as cameras, video switchers, or any high-speed portable devices, the YS8042 features low distortion and fast settling characteristics, making it an ideal buffer for single-supply, high-speed analog-to-digital converters (ADCs). simultaneously

The YS8042 features a broadband width of 120MHz and a slew rate of 130V/ μ s when powered by a single 5V supply, making it suitable for a wide range of general-purpose high-speed applications requiring +3.3V to +10V single supplies and up to $\pm 5V$ dual supplies.

Benchmark model: Ad8138

Quality grade: GJB597B-2012 Grade B, GJB7400 NI grade or enterprise military standard

Packaging form: ceramic package CSOP8/ plastic package SOP8

Performance index:

Easy to use, single-ended to differential conversion
adjustable output common mode voltage
external adjustable gain

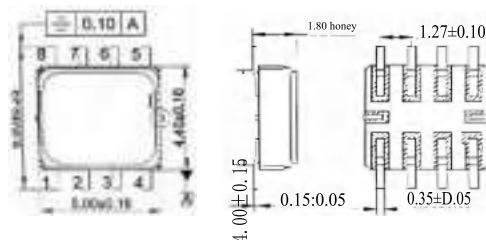
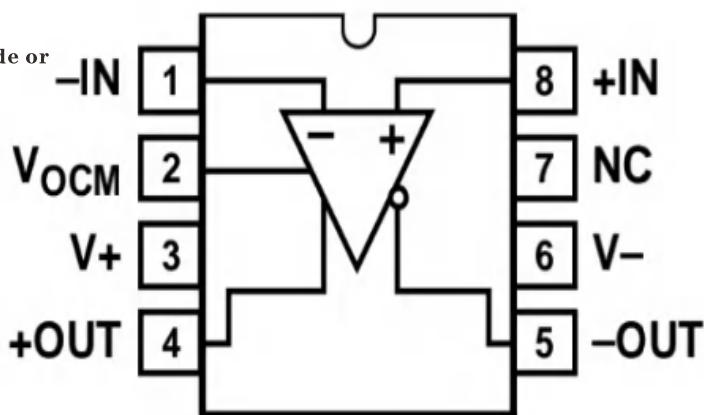
-3dB bandwidth: 300 MHz (G=+1)

Swing rate: >880V/us

High-reliability plastic package SOP8/ceramic package CSOP8,40-pin QFN

Power supply voltage: +5V/15V

Operating temperature range: -55 to 125° C



Tao Feng CSOP8

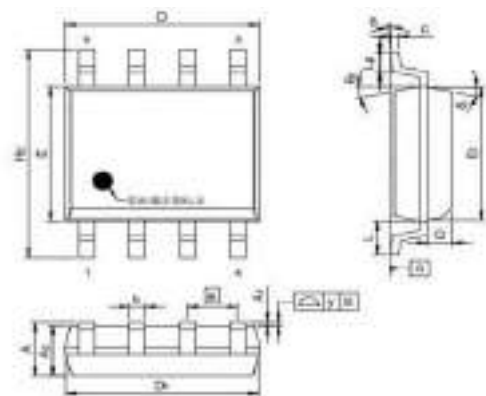
Product features:

2.5V reference integrated in chip

The core metrics can fully match those of foreign products.

Shell and tube size diagram

Size Symbol	numeric value			Digit symbol	numeric value		
	Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
A	1.50	—	1.75	b	0.35	—	0.45
A	0.10	—	0.25	C	0.15	—	0.25
A	1.40	—	1.50	e	—	1.27	—
Q	0.58	—	0.68	y	1	—	0.15
D	4.80	—	5.00	Lp	10.40	—	0.80
D	4.75	—	4.95	L	—	1.05	—
E	3.80	—	4.00	θ	0°	—	8°
E	3.75	—	3.95	θ	—	12°	—
H	5.80	—	6.20	θ2	—	12°	—



塑封SOP8

YS8139

Low Distortion Differential Mode-Conversion Driver

The YS8139 is a domestically manufactured high-voltage bipolar complementary process device, designed as a single-ended to differential amplifier or differential-to-differential rail-to-rail amplifier. With a -3dB bandwidth of 220 MHz, it delivers differential signals and high SFDR while maintaining exceptionally low harmonic distortion and noise, making it an ideal choice for driving high-precision ADCs. Its unique internal feedback mechanism achieves balanced output gain and phase matching, effectively suppressing even-order harmonics. The integrated feedback circuit minimizes any gain errors caused by mismatched external gain setting resistors.

Reference model: AD8139

Quality grade: GJB7400N1 enterprise and military standard

Encapsulation type: plastic encapsulated SOP8

Performance index:

Easy to use, single-ended to differential conversion

Adjustable output common-mode voltage with externally adjustable gain rail-to-rail output

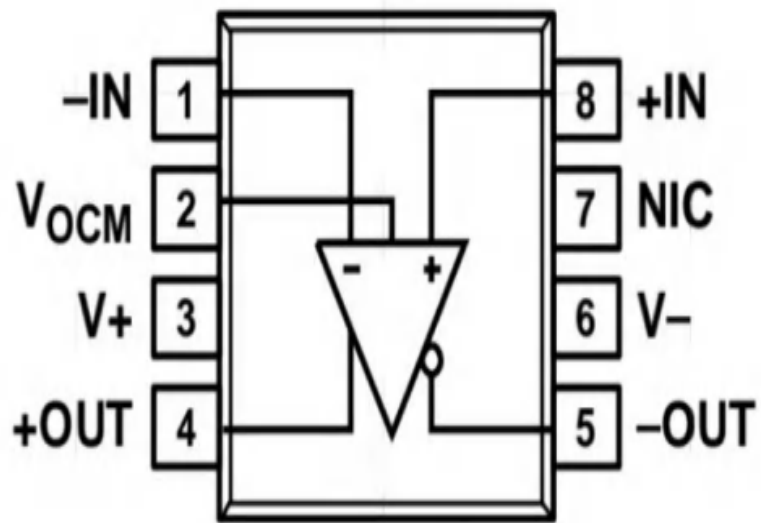
9 -3dB bandwidth: 220 MHz ($G=+1$)

Low input voltage noise: 2.25 nV/Hz

0.01% fast establishment time: 45 ns

swing rate: 600 V/us

Common mode rejection ratio: 60dB

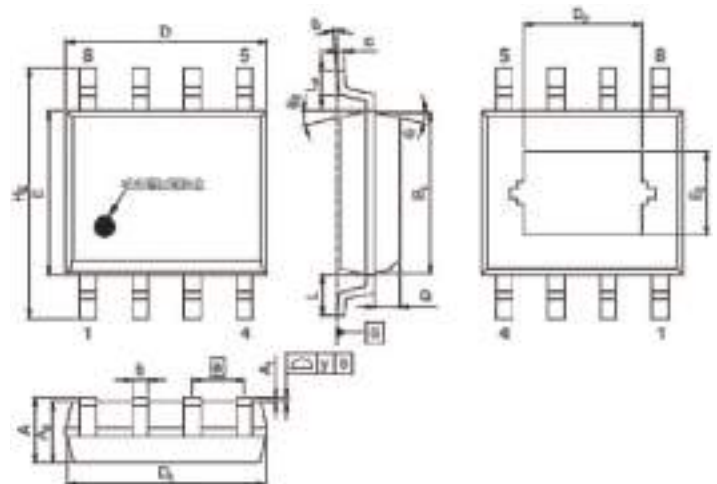


Product features:

2.5V reference integrated on chip

The core metrics can fully match those of foreign products.

Size symbol	numeric value			Size symbol	numeric value		
	Minimum	Nominal	Maximum		Minimum	Nominal	Maximum
A	1.50	—	1.75	H	5.80	—	6.20
A	0.10	—	0.25	b	0.35	—	0.45
A ₂	1.40	—	1.50	c	0.15	—	0.25
Q	0.58	—	0.68	y	2	—	0.15
D	4.80	—	5.00	L _p	0.40	—	0.80
D	4.75	—	4.95	L	—	1.05	—
D ₂	2.78	—	2.98	Sun	0°	—	8°
E	3.80	—	4.00	θ	—	12°	—
E	3.75	—	3.95	0	—	12°	—
E ₂	1.93	—	2.13				



SOP8 package size chart

YS3701

2.54mm pitch/board -to-board Connector

2.54mm 间距/板到板连接器

Overview

The 3701 Series is a 2.54mm pitch male-female integrated board-to-board connector offering various height, vertical, and horizontal connection configurations. Its unique integrated design not only provides efficient and reliable signal transmission for equipment but also significantly reduces component count and lowers development costs.

概述

3701系列是一款2.54间距公母同体板到板连接器，提供同高度、垂直、水平连接组合，其独特的公母合体设计在为设备提供有效可靠的信号传输外，又能极大程度元器件数量，缩减开发成本。



Features and Benefits

- Integrated male-female components reduce development costs and simplify management.
- Poka-yoke design
- Welding Morphological Diversity
- Multiple matching heights available

产品特点

- 公母集成一体化，缩减开发成本，且便于管理
- 防呆设计防错插
- 焊接形态多样性
- 多种对配高度可选

Product Applications

- Industrial: Industrial Control and Automation
- Medical: Computers and Peripheral Devices, Communication Module

应用领域

- 工业：工业控制与自动化
- 通信：计算机及接口设备、通讯模块

Standard 标准

- GB/T 5095

Material 材料

Part/零件	Material/材料	Finish/电镀	UL Flame retardant/阻燃等级
Header Plug/板端公座	LCP	Black/黑色	UL94V-0
Terminal/端子	Copper Alloy/铜合金	Gold-plated/镀金	-

Production Specifications 产品规格

Current rating 额定电流	3.2 A	Operating temperature Range:-55° C~+125° C (including temperature rise) Operating Humidity Range:20-80% 工作温度范围: -55° C~+125° C(含温升) 工作湿度范围: 20-80%	Storage temperature: Humidity: 储存温度: 25±5° C 储存湿度: ≤60%
Voltage rating 额定电压	475V/AC		

YS3614

0.80mm pitch/board -to-board Connector

0.80mm间距/板到板连接器

Overview

0.80mm Stackable Board-to-Board Connector, SMT soldered type, available with 20-160 pins, for industrial, communications, and other applications.

概述

0.80mm可堆叠板对板连接器，使用SMT焊接式，提供20-160PIN针可选，应用于工业、通信等领域。



Features and Benefits

- Fixed-plate metal components
- Multiple height options available
- Anti-misplug structre
- Simple lock design ensures reliable connection

产品特点

- 设有固定片金属件
- 多种配合高度选择
- 防呆设计防错插
- 简易锁设计，提供连接可靠性

Product Applications

- Industrial: Industrial computers, industrial equipment
- Communications: Server, Office equipment

应用领域

- 工业：工业电脑、工业设备
- 通信：服务器、办公设备

Standard 标准

- EIA 364
- IEC 60512

UL certification UL认证

- E248993

Material 材料

Part/零件	Material/材料	Finish/电镀	UL Flame retardant/阻燃等级
Plug/公座	LCP	Black/黑色	UL94V-0
Socket/母座	LCP	Black/黑色	UL94V-0
Terminal/端子	phosphor bronze	Gold-plated/镀金	-

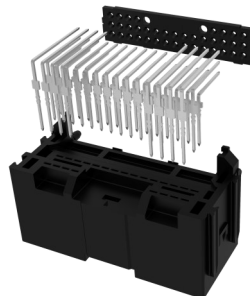
Production Specifications 产品规格

Current rating 额定电流	0.5 A	Operating temperature Range:-40° C~+105° C (including temperature rise) Operating Humidity Range:20-80% 工作温度范围: -40° C~+105° C(含温升) 工作湿度范围: 20-80%	Storage temperature: Operating Humidity: 储存温度: 25±5° C 储存湿度: ≤60%
Voltage rating 额定电压	50V		

YS72040

2.00mm pitch/board-to-board Connector

2.00mm间距/板到板连接器



Overview

The 72040 connector is a three-row, 2.0mm pitch, non-sealed automotive wire-to-board connector. Available in various colors and with anti-misinsertion options, the female receptacle features ISL and CPA, making it a highly reliable solution for automotive applications.

Features and Benefits

- Features a locking mechanism and ISL, CPA multi-level security connectivity
- Multiple foolproof options available with color differentiation
- Provides horizontal and vertical connection

Product Applications

- Automobile: Door and Window Control, Security Systems, Smart Vehicles, Convenience Systems

Standard 标准

- USCAR-2

Material 材料

Part/零件	Material/材料	Finish/电镀	UL Flame retardant/阻燃等级
Male/公座	PA10T	Black/黑色 Grey/灰色 DK Grey/深灰色	UL94V-0
Terminal/打线端子	C7025	Gold/镀金 Tin/镀锡	/

Production Specifications 产品规格

Current rating 额定电流	4.0A	Operating Temperature Range:-40℃~+125℃ (including temperature rise) Operating Humidity Range:20-80% 工作温度范围: -40℃~+125℃(含温升) 工作湿度范围: ≤80%	Storage Temperature: Humidity: 储存温度: 25±5℃ 储存湿度: ≤60%
Voltage rating 额定电压	14V		

概述

72040连接器是一款三排2.0mm间距非密封级线到板汽车连接器，产品拥有不同颜色及防呆可选，同时母座拥有ISL和CPA，是车用的一种高可靠性解决方案。

产品特点

- 带有锁扣及ISL、CPA多重保障连接性
- 多种防呆可选并拥有颜色区分
- 提供水平、垂直方向连接

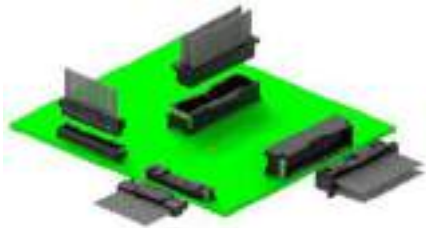
应用领域

- 汽车：门窗控制、安全系统、只能座驾、便利系统

YS1258

1.25mm pitch/Wire-to-board Connector

1.25mm间距/线到板连接器

Two-point contact
两点接触

Overview

YS1258 series products are 1.25mm pitch high density, small size, double contact design can give the product contact stability, vibration resistance, shock resistance, and can provide signal transmission for the device to provide a wire-to-board connector.

概述

YS1258系列产品是一款1.25mm间距高密度、小体积，双触点的设计能给予产品接触稳定、抗振动、耐冲击的性能，同时能为设备提供信号传输的线到板连接器。

Features and Benefits

- Flexible and versatile installation methods
- Double bottoming design, stable contact
- Small size, high density
- Vibration and shock resistant

产品特点

- 灵活多样的安装方式
- 双触底设计、接触稳定
- 小体积、高密度
- 抗振动、耐冲击

Product Applications

- Automotive: Steering, gear lever, entertainment audio
- Industrial: Robotic arms, drone transportation, network services

应用领域

- 汽车：转向系统、换挡杆、娱乐影音
- 工业：机械手臂、无人机运输、网络服务

Standard 标准

- QC/T 1067, QCT 29106, GB/T 5095

UL certification UL认证

- E248993

Material 材料材料

Part/零件	Material/材料	Finish/电镀	UL Flame retardant/阻燃等级
Housing/主体	PBT	Black/黑色	UL94V-0
Header/板端	PA9T	Black/黑色	UL94V-0
Terminal/端子	phosphor bronze 磷铜 (C5191)	Tin plated 镀锡	-

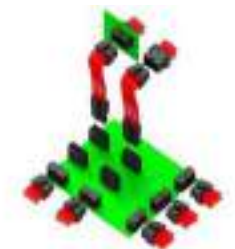
Production Specifications 产品规格

Current rating 额定电流	Double Row 双排: 2.4 A Max Single Row 单排: 3.6 A Max	Operating temperature Range: -40° C~+125° C (including temperature rise) Operating Humidity Range: 20-80% 工作温度范围: -40° C~+125° C (含温升) 工作湿度范围: 20-80%	Storage temperature: Operating Humidity: 储存温度: 25±5° C 储存湿度: ≤60%
Voltage rating 额定电压	50V		

YS3001

3.00mm pitch/Wire-to-board Connector

3.00mm间距/线到板连接器

Two-point contact
两点接触

Overview

The YS3001 series is a high-performance, compact connector that offers power and flexibility without compromising space or reliability. It is a durable and feature-rich wire-to-board and wire-to-wire connector.

Features and Benefits

- Anti-misplug structure
- Flexible and versatile installation methods
- Supports reflow soldering process (LCP material)
- With lock design, the connection is stable

Product Applications

- Industrial: Industrial automation, Industrial servers
- Consumer: Refrigerator, washing machine, game console
- Network: Routers, servers, storage devices
- Medical: Diagnostic equipment, patient monitors

Standard 标准

- EIA-364

Material 材料

Part/零件	Material/材料	Finish/电镀	UL Flame retardant/阻燃等级
Housing/主体	PA66	Beige/米色 White/白色 Black/黑色	UL94V-0
Header/板端	LCP	Black/黑色	UL94V-0
Terminal/端子	phosphor bronze 磷铜 (C5191) Brass 黄铜 (C2680)	Tin plated 镀锡	-

概述

YS3001系列是一款高性能、紧凑型连接器，在不影响空间、可靠性的情况下提供了功率和灵活性，是一款耐用且功能丰富的线到板、线到线连接器。

产品特点

- 防错插对插结构
- 灵活多样安装方式
- 支持回流焊工艺（LCP料）
- 带有锁扣设计，连接稳定

应用领域

- 工业：自动化设备、工业服务器
- 消费类：冰箱、洗衣机、游戏机
- 网络：路由器、服务器、存储器
- 医疗：诊断设备、病人监护仪

UL certification UL认证

- E248993

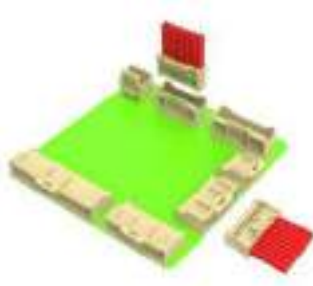
Production Specifications 产品规格

Current rating 额定电流	5.0 A	Operating temperature Range: -40° C ~ +105° C (including temperature rise) Operating Humidity Range: 20-80% 工作温度范围: -40° C ~ +105° C (含温升) 工作湿度范围: 20-80%	Storage temperature: Operating Humidity: 储存温度: 25 ± 5° C 储存湿度: ≤ 60%
Voltage rating 额定电压	50V/AC		

YS2011

2.0mm pitch/Wire-to-board Connector

2.0mm间距/线到板连接器

Two-point contact
两点接触**Overview**

YS2011 is a 2.0mm pitch wire to board connector, the product has both high density, high performance, high integration and other advantages, can effectively ensure the stability of the signal transmission and integrity, the end of the board to provide horizontal and vertical jack mounting, to meet the customer's different angles of insertion and adaptation.

Features and Benefits

- Rugged, compact design saves space
- Secure fit with audible snap
- Push to unlock, easy to operate
- Resistant to vibration and shock, maintains stable condition

Product Applications

- Automotive: GPS, headlight systems
- Industrial: HVAC controls, safety equipment
- Intelligent Buildings: monitors, vending machines

Standard 标准

- GB/T 5095
- QC/T 1067

Material 材料

Part/零件	Material/材料	Finish/电镀	UL Flame retardant/阻燃等级
Housing/主体	PA66	Black/黑色 light brown/浅褐色	UL94V-0
Header/板端	PA66/PA9T	Black/黑色 light brown/浅褐色 Natural/本色	UL94V-0
Terminal/端子	phosphor bronze 磷铜 (C5191)	Tin plated 镀锡	-

Production Specifications 产品规格

Current rating 额定电流	3.0 A	Operating Temperature Range: -40° C~+105° (including temperature rise) Operating Humidity Range: 20-80% 工作温度范围: -40° C~+105° C(含温升) 工作湿度范围: ≤80%	Storage Temperature: Operating Humidity: 储存温度: 25±5° C 储存湿度: ≤60%
Voltage rating 额定电压	250V		

概述

YS2011是一款2.0mm间距线到板连接器，产品兼具高密度、高性能，高集成等优点，能有效确保信号传输的稳定性以及完整性，板端提供水平及垂直方向插孔安装，满足客户不同角度对插适配。

产品特点

- 坚固耐用，紧凑设计，可节省空间
- 配合安全、有清脆的扣合声发出
- 按压式解锁、操作简单
- 抗振动、冲击能力强，保持稳定状态

应用领域

- 汽车：GPS、车灯系统
- 工业：HVAC控制、安全设备
- 智能楼宇：监控器、自动售卖机

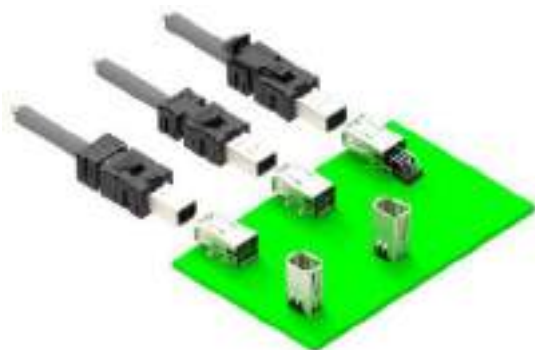
UL certification UL认证

- E248993

YS6361&6362

1.27mm pitch/Wire-to-board Connector

1.27mm间距/线到板连接器



U-Shape



D-Shape

Overview

Micro I/O connectors are rectangular connectors that can transfer data between devices in industrial applications, only a quarter of the size of traditional RJ45 plugs, which saves PCB space and therefore allows for more efficient use of space. In industrial environments, the locking latch prevents accidental disconnections due to shocks, vibrations, or pulling on wires, and supports data rates ranging from 10Mbps to 10Gbps

Features and Benefits

- Small size, space-saving, easy and quick installation
- Unique interfaces (type U and type D), preventing mis-matching
- Rugged die-cast housing, 360 degree shielding
- High board retention, metal locking clips, anti-accidental dislodgement, stable connection

Product Applications

- Industrial equipment: automation equipment, robotics and control systems, control units
- Computers: motherboards, hard drives, disk drives

Standard 标准

- EIA 364
- GB/T 5095

Material 材料

Part/零件	Material/材料	Finish/电镀	UL Flame retardant/阻燃等级
Metal Shell/金属外壳	Brass/黄铜 (C2680)	Tin-plated or matte tin 镀锡或雾锡	-
Housing/主体	LCP	Black/黑色	UL94V-0
Cover/后盖	LCP	Black/黑色	UL94V-0
Terminal/端子	Copper alloy/铜合金 (C5191)	Plated Au or Tin 镀半金锡	-

Production Specifications 产品规格

Current rating 额定电流	0.5 A	Operating Temperature Range: -40° C~+105° (including temperature rise) Operating Humidity Range: 20-80% 工作温度范围: -40° C~+105° C(含温升) 工作湿度范围: ≤80%	Storage Temperature: Operating Humidity: 储存温度: 25±5° C 储存湿度: ≤60%
Voltage rating 额定电压	50V		

概述

Micro I/O连接器是可在工业应用设备之间传输数据的矩形连接器, 只有传统 RJ45 插头大小的四分之一, 可节省PCB使用空间, 因此可以更有效地利用空间, 在工业环境中, 锁扣可以防止由于冲击、振动或拉扯电线而导致的网络连接意外断开, 且支持从10Mbps 到 10Gbps 的数据速率

产品特点

- 体积小, 节省空间, 安装方便、快捷
- 独特的接口(类型U和类型D), 防止错误匹配
- 坚固的压铸外壳, 360度屏蔽
- 高板保持力, 金属锁扣, 防意外脱落, 稳定连接

应用领域

- 工业设备: 工业通讯、机器人与控制系统、控制单元
- 计算机: 主板、硬盘、磁盘驱动器

YS3622

0.50mm (0.020")pitch,SMT Board-to-Board Connector

0.50毫米（0.020英寸）间距，表面贴装板对板连接器

Overview

3622 series features an ultra-compact design, versatile stacking heights and outstanding performance, supporting both automated placement and FPC (flexible printed circuit) mounting requirements. It meets the demands for compactness and reliability in modern electronic devices.

概述

3622系列采用超小型设计、多样的堆叠高度和出色的性能，并支持自动贴装和FPC（柔性印刷电路）安装需求，满足了现代电子设备对紧凑性和可靠性的需求。

Features and Benefits

- Variable stacking heights (3.00~8.00 mm)
- Metal components enhance reliability and improve mechanical strength
- Superior terminal retention ensures stable connections
- Supports automatic placement, enhancing assembly efficiency

Product Applications

- Industrial equipment: automated equipment, sensor modules
- Consumer electronics: smartphones, tablets, copiers and printers

Standard 标准

- EIA 364
- IEC 60512

Material 材料

Part/零件	Material/材料	Finish/电镀	UL Flame retardant/阻燃等级
Plug/插头	PA9T	Natural/自然色	UL94V-0
Socket/插座	PA9T	Natural/自然色	UL94V-0
Terminal/端子	Copper Alloy	Plated Gold 镀金	-

Production Specifications 产品规格

Current rating 额定电流	0.5 A	Operating Temperature Range:-40° C~+105° (including temperature rise) Operating Humidity Range:20-80%	Storage Temperature:25±5° C Humidity:≤60%
Voltage rating 额定电压	50V	工作温度范围: -40° C~+105° C(含温升) 工作湿度范围: 20-80%	储存温度: 25±5° C 储存湿度: ≤60%



特点与优势

- 多样化堆叠高度 (3.00~8.00mm)
- 金属配件增强可靠性，提高机械性能
- 出色的端子保持力，确保稳定连接
- 支持自动贴装，提高装配效率

应用领域

- 工业设备：自动化设备、传感器模块
- 消费电子：智能手机、平板电脑、复印/打印机

YS3610

0.80mm (0.032")pitch,SMT Board-to-Board Connector
0.80毫米（0.032英寸）间距，表面贴装板对板连接器

Overview

0.80mm pitch 3610 series product is a vertically mounted, dual-channel board-to-board connector. Its unique design ensures stable and reliable connections, meeting diverse requirements for use in confined spaces.

概述

0.80mm间距3610系列产品是一款垂直连接，双槽结构板对板连接器，独特的设计使连接更稳定可靠，满足多种狭小空间使用需求。

Features and Benefits

- Compact size, high density
- Unique terminal design for stable and reliable contact
- Blind-fit pairing, straightforward installation
- Stacking height: 4–8 mm (selectable)

Product Applications

- Industrial Control and Automation, Instrumentation
- Communications and Networking, Data Centres
- Medical equipment

Standard 标准

- EIA 364
- IEC 60512

Material 材料

Part/零件	Material/材料	Finish/电镀	UL Flame retardant/阻燃等级
Plug/插头	PA9T	Black/黑色 Beige/米黄色	UL94V-0
Socket/插座	PA9T	Black/黑色 Beige/米黄色	UL94V-0
Terminal/端子	Copper Alloy	Plated Au 镀金	-

Production Specifications 产品规格

Current rating 额定电流	0.5 A	Operating Temperature Range:-20° C~+105° (including temperature rise) Operating Humidity Range:20-80% 工作温度范围: -20° C~+105° C(含温升) 工作湿度范围: 20-80%	Storage Teroerature:25±5° C Humidity:≤60% 储存温度: 25±5° C 储存湿度: ≤60%
Voltage rating 额定电压	50V		



特点与优势

- 小体积，高密度
- 独特端子设计，接触稳定可靠
- 盲插对配，安装便捷
- 堆叠高度：4~8mm可选

应用领域

- 工业控制与自动化、仪器仪表
- 通信与网络、数据中心
- 医疗设备

UL certification UL认证

- E248993

由于市场及产品改进的需要，本手册所列产品的照片、技术参数、说明有可能改变，恕不另行通知，最终解释权归本公司所有!

Due to the needs of the market and product improvement the photos, technical parameters, and descriptions of the products listed in this manual may be changed without notice.

The final interpretation right belongs to our company!



西安悦扬电子科技有限公司

Xi'an Yueyang Electronic Technology Co., Ltd.

地址：西安市曲江新区雁展路1111号莱安中心T9-1404室

电话：029-88354075