



MDA(M) Series (3~5W) 宽电压隔离系列

特性 Features

- 引出脚功能兼容 Pin function compatible
- 输入输出完全隔离 Completely isolate between input & output
- 输出短路保护 Output short circuit protection
- 自然冷却, 无须附加散热器 Natural cooling, no heat sink needed
- 快速动态响应 Fast dynamic response
- 体积小, 单双路输出 Small form factor, single double output
- 高可靠性, 长寿命设计 Design for high reliability, long lifetime



输入特性 Input Characteristic

电压范围 (Voltage Range)	5VDC(额定值)	4.5~9 VDC	反压保护 (Reverse Protection)
	12VDC(额定值)	9~18 VDC	
	24VDC(额定值)	18~36 VDC	
	48VDC(额定值)	36~72 VDC	
	110VDC(额定值)	72~144 VDC	

输出特性 Output Characteristic

电压精度 (Voltage Set-point Accuracy)	Vo1: ±1%、Vo2: ±3%	温度系数 (Temperature Coefficient)	±0.02%/°C
电压调整率 (Line Regulation)	±1%	电流限制点 (Output Current Limiting)	120%(Typ)
负载调整率 (Load Regulation)	<0.5%	响应速度 (Dynamic Response)	400 μs
交叉调整率 (Cross Regulation)	±3%		

一般特性 General Characteristic

工作频率 (Switching Frequency)	300 KHz	环境特性(Environmental Characteristics)	
绝缘电阻(Isolation Resitstance)	200 MΩ	工作温度(Operation Temperature)	
MTBF	>500000 H	工业品(Industry)	-25°C ~ +60°C
绝缘强度(Isolation Voltage)		军品(Military I)	-40°C ~ +70°C
输入-输出(Input-Output)	>1500 VDC	存储温度(Storage Temperature)	
输入-外壳(Input-Case)	>1050 VDC	工业品(Industry)	-45°C ~ +105°C
输出-外壳(Output-Case)	>500 VDC	军品(Military I)	-55°C ~ +105°C

型号 Models

型号 Models	输入电压(Vdc) Input voltage	输入电压范围(Vdc) Input voltage range	输出电压(Vdc) Output voltage	输出电流(A) Output current	纹波(mv) Ripple and noise	效率(Typ) Efficiency
MDA(M)3-XXS5	12	9~18	5.0	0.6	60	81%
MDA(M)3-XXS12			12.0	0.25	100	83%
MDA(M)3-XXS15			15.0	0.2	120	83%
MDA(M)3-XXS24			24.0	0.125	200	84%
MDA(M)3-XXD5			110	72~144	±5.0	±0.3
MDA(M)3-XXD12	±12.0	±0.125			100	83%
MDA(M)3-XXD15	±15.0	±0.1			120	83%

DC-DC 插针式电源模块系列

型号 Models	输入电压(Vdc) Input voltage	输入电压范围(Vdc) Input voltage range	输出电压(Vdc) Output voltage	输出电流(A) Output current	纹波(mv) Ripple and noise	效率(Typ) Efficiency
MDA(M)5-XXS5	12 24 48 110	9~18 18~36 36~72 72~144	5.0	1.0	60	81%
MDA(M)5-XXS12			12.0	0.42	100	83%
MDA(M)5-XXS15			15.0	0.33	120	83%
MDA(M)5-XXS24			24.0	0.21	200	84%
MDA(M)5-XXD5			± 5.0	± 0.5	60	82%
MDA(M)5-XXD12			± 12.0	± 0.208	100	83%
MDA(M)5-XXD15			± 15.0	± 0.167	120	83%

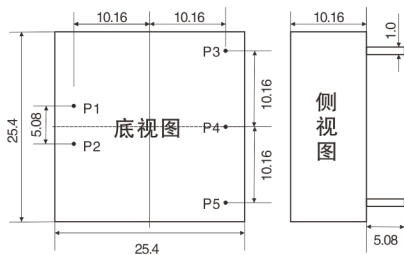
说明：仅列出典型型号，其他型号，请确定功率、输入电压及输出电压，致电我公司0571-88915820

Only typical models listed. If you need other model, please conform the power, input voltage and output voltage, then phone us.

外形尺寸及引脚定义(单位mm) Mechanical drawing and pin definition

MDA-(A封装)电源模块管脚定义及尺寸(国内常用尺寸)：

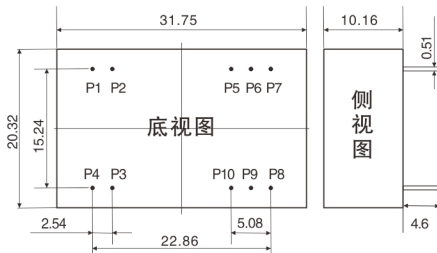
25.4mm × 25.4mm × 10.16mm(1" × 1" × 0.4")



引脚	单路	双路
P1	Vin+	Vin+
P2	Vin-	Vin-
P3	Vo1+	Vo1+
P4	NC	COM
P5	GND	Vo2-

MDM-(M封装)电源模块管脚定义及尺寸(国际标准尺寸)：

31.75mm × 20.32mm × 10.16mm(1.25" × 0.8" × 0.4")



引脚	单路	双路
P1	Vin-	Vin-
P2		
P3	Vin+	Vin+
P4		
P5	NC	COM
P6		NC
P7		VO 2-
P8	VO 1+	VO 1+
P9	NC	NC
P10	GND	COM