

MSTronic Co., Ltd.

2F, 12, Gongshang Rd., Wugu District, 248 New Taipei City, Taiwan

TEL:886-2-2293-0159 FAX:886-2-2292-8851

E.MAIL: mse@mse.com.tw

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MIT-98G-A2448BDNM

AC/DC 5Gigabit PoE Injector

SPECIFICATION

1. INPUT :

- 1.1 Input Voltage: 22Vac to 30Vac Normal = 24Vac
- 1.2 Input Current: 1.47A at 24Vac Full Load
1.70A at 22Vac Full Load
1.29A at 30Vac Full Load
- 1.3 Input Frequency : 50/60hz
- 1.4 Power Factor: >0.56(at F.L) suggest : initial add Inductor.

2. OUTPUT :

2.1 Output Voltage & Current:

OUTPUT	+48V
Max. load	0.35A
Power	16.8W
Min. Load	0A
Load reg. %	5%
Line reg. %	1%
Ripple %	1%
Noise %	1%

TOTAL POWER :16.8W

Note 1: Noise bandwidth is from DC to 20Mhz. Ripple & Noise is measured by Paralleling a 0.1uF metalize capacitor on the test point.

3. EFFICIENCY : 75% min at Full Load , AC Input Voltage

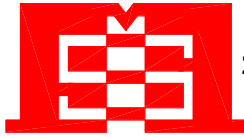
4. PROTECTION

4.1 Short Circuit Protection

Output Short GND Terminal will not damage the Power Supply and will auto-Reset.

4.2 Input with Fuse Protection.

4.3 Safety Standard: meet EN62368-1 , EN45545.



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4.4 EMC : meet FCC Class B, EN55032 Class B , EN60945, EN50155

4.5 Over Current : 802.3af Limits @All AC Input F.L

5. GENERAL DESCRIPTION

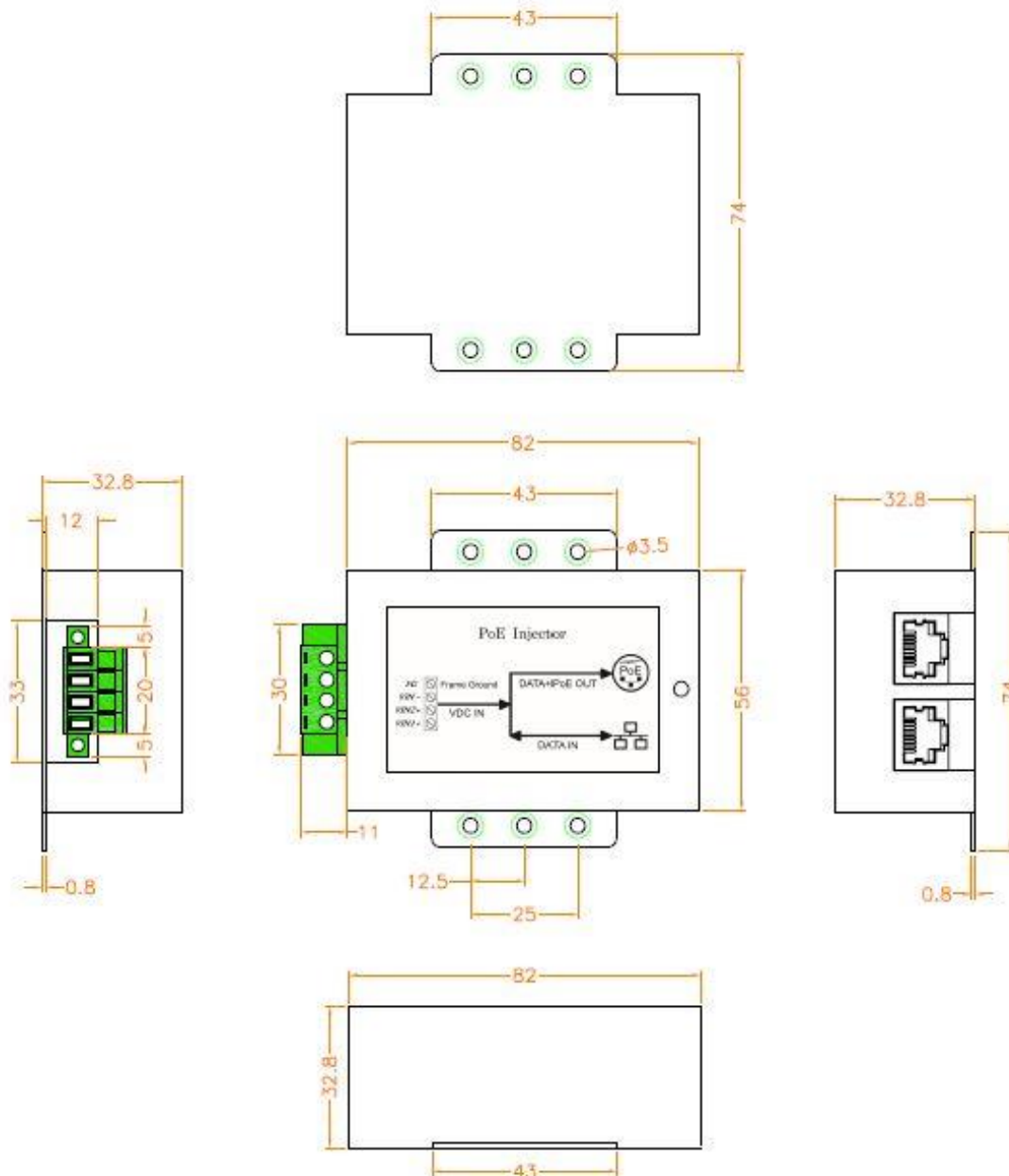
5.1 Operation Temperature: -40°C - +40°C

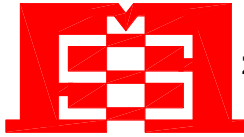
5.2 Storage Temperature: -40°C - +85°C

5.3 Operation Humidity: 5% - 90%

5.4 Cooling: Free air cooling

5.5 Dimensions: Metal case 82*56*33 (L)*(W)*(H)





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Warning :

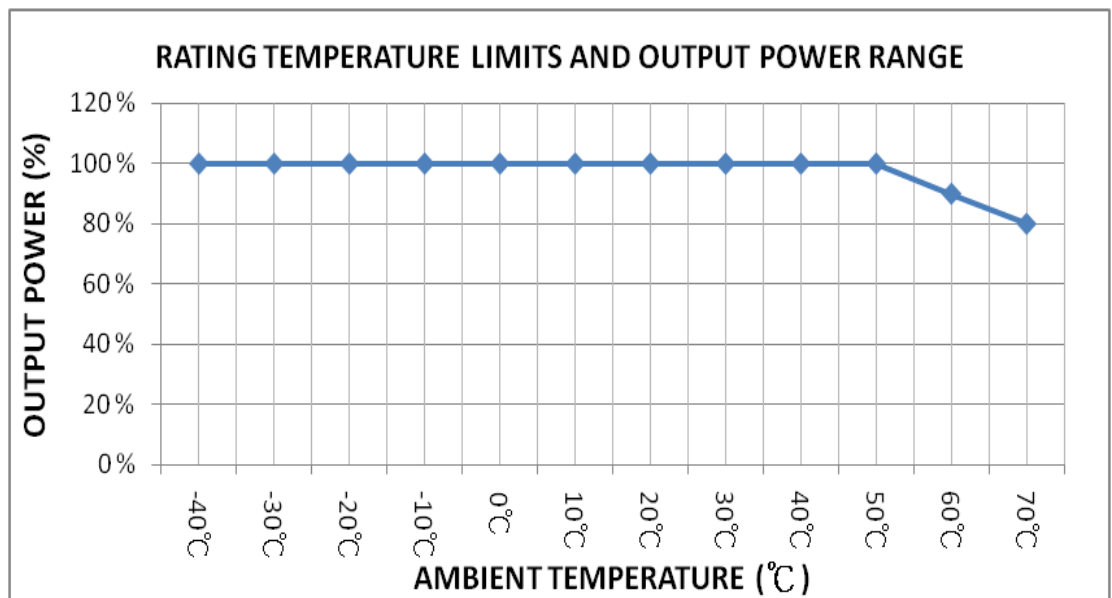
Input Fuse(T3.15A-125V) Must Installation at Line and Line. (The fuse must be installed on one of the wires.)

It is strongly recommended to install an inductor at the input (minimum 1mH)

The ground of the power supply must be connected to the ground of the load, and also to the ground of the machine

MIT-98G-A248BDNM

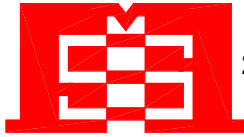
Ambient	O/P Load
-40°C	100%
-30°C	100%
-20°C	100%
-10°C	100%
0°C	100%
10°C	100%
20°C	100%
30°C	100%
40°C	100%
50°C	100%
60°C	90%
70°C	80%



6. Indicator :

6.1 Output Ready the LED will be “RED”

6.2 Output 802.3af OK the LED will be “GREEN”



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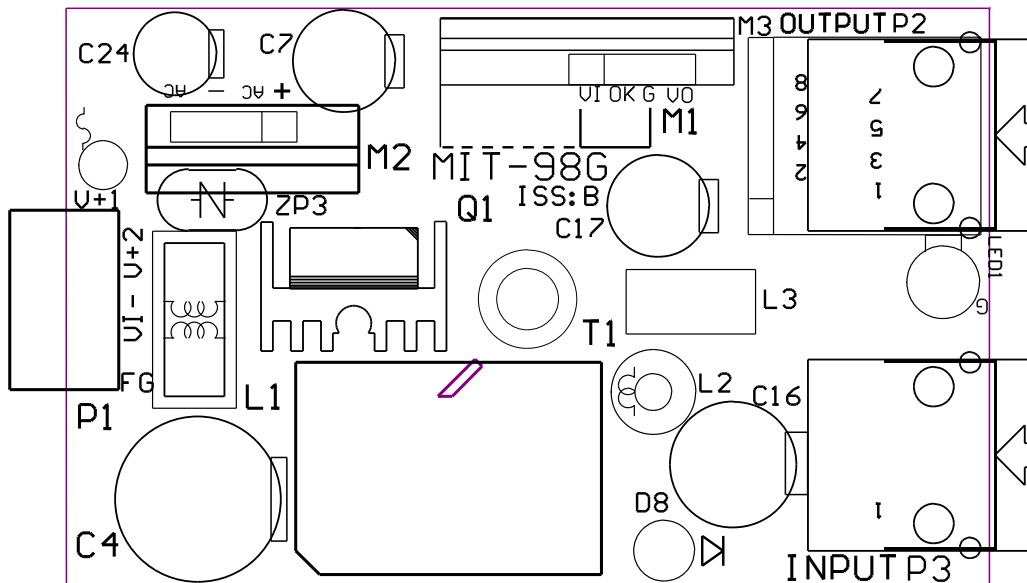
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7. RJ45 Connected and pin out: @5000Mbps

RJ-45 Input (Data Only)			RJ-45 Output (Data & Power)	
Pin	Symbol	Description	Symbol	Description
1	BI_DA+	Data Pair A+	BI_DA+	Data Pair A+
2	BI_DA-	Data Pair A-	BI_DA-	Data Pair A-
3	BI_DB+	Data Pair B+	BI_DB+	Data Pair B+
4	BI_DC+	Data Pair C+	+Vdc + BI_DC+	power(+)+Data Pair C+
5	BI_DC-	Data Pair C-	+Vdc + BI_DC-	power(+)+Data Pair C-
6	BI_DB-	Data Pair B-	BI_DB-	Data Pair B-
7	BI_DD+	Data Pair D+	-Vdc + BI_DD+	power(-)+Data Pair D+
8	BI_DD-	Data Pair D-	-Vdc + BI_DD-	power(-)+Data Pair D-

P1 = HD-516R-4P





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8, SPEC. of SURGE/LIGHTNING PROTECTION at M3

TVS Diode Arrays (SPA® Diodes)
Lightning Surge Protection- SP4022 Series



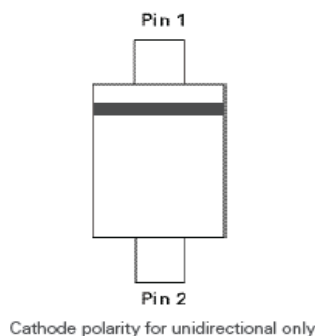
SP4022 Series 1.3pF, 15A Discrete TVS Diode



Description

The SP4022 series integrates low capacitance steering diodes with one or two avalanche breakdown diodes for unidirectional or bidirectional protection, respectively, to protect against ESD and lightning induced surge events. These devices can safely absorb up to 15A per IEC 61000-4-5 2nd Edition ($t_p=8/20\mu s$) without performance degradation and a minimum $\pm 30kV$ ESD per IEC61000-4-2 International Standard. The low loading capacitance and high surge capability make it ideal for protecting telecommunication ports such as xDSL and other high voltage, high speed legacy interfaces.

Pinout



Features

- ESD, IEC 61000-4-2, $\pm 30kV$ contact, $\pm 30kV$ air
- EFT, IEC 61000-4-4, 40A (5/50ns)
- Lightning, IEC 61000-4-5 2nd Edition, 15A ($t_p=8/20\mu s$)
- Low capacitance of 1.3pF (@ $V_R=0V$)
- Low leakage current
- Unidirectional and Bidirectional configuration
- Small SOD323 package fits 0805 footprints
- AEC-Q101 qualified
- Halogen free, Lead free, and RoHS compliant
- Moisture Sensitivity Level (MSL-1)



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