



# 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: 1.53A at 24Vac/50hz Full Load  
1.70A at 22Vac/50hz Full Load  
1.23A at 30Vac/50hz 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

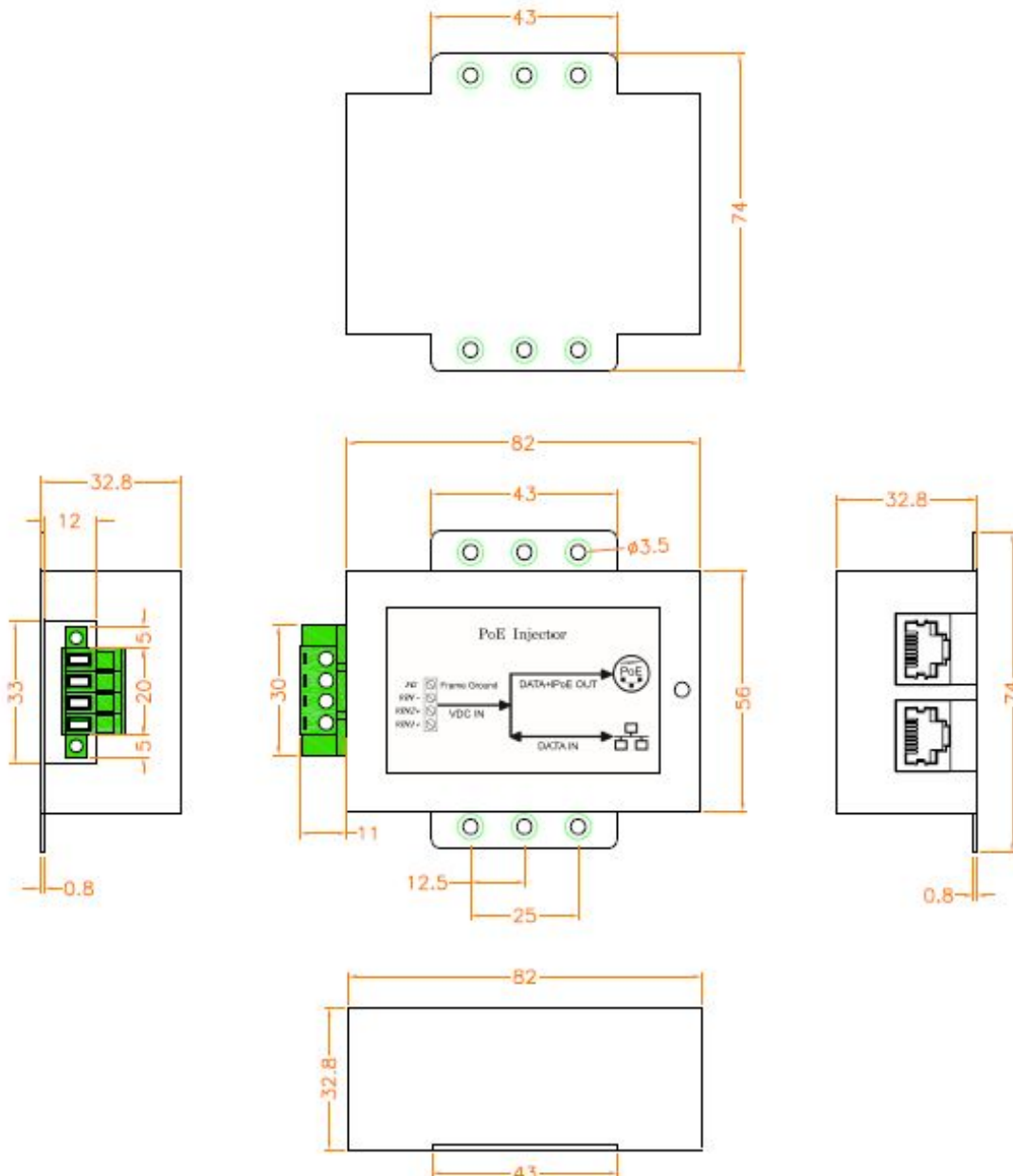
5.1 Operation Temperature: -40°C - +50°C

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

## 6. Indicator :

6.1 Output Ready the LED will be “RED”

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

## 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-



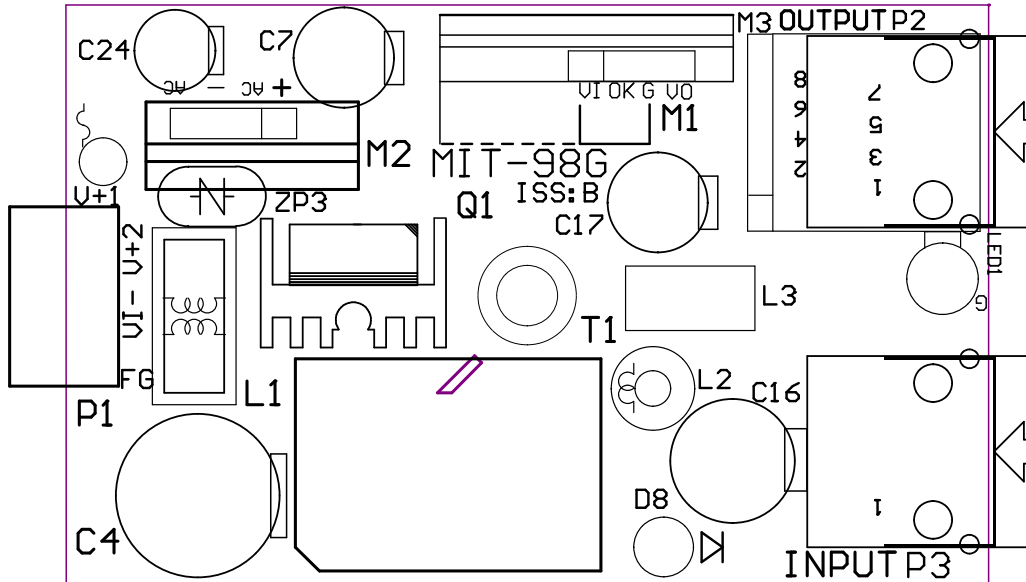
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P1 = HD-516R-4P



## 8, SPEC. of SURGE/LIGHTNING PROTECTION at M3

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

Expertise Applied | Answers Delivered

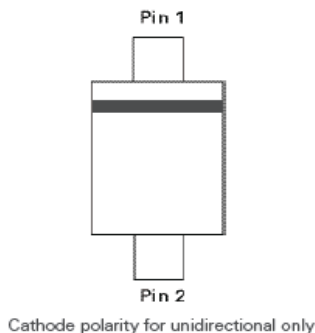
SP4022 Series 1.3pF, 15A Discrete TVS Diode



### 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 2<sup>nd</sup> 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 2<sup>nd</sup> 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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