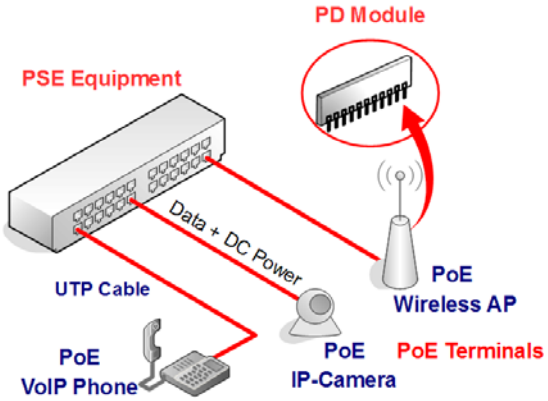
DESCRIPTION

12V, 13W max. PD(Powered Device) Integrated Module (Isolation Type).

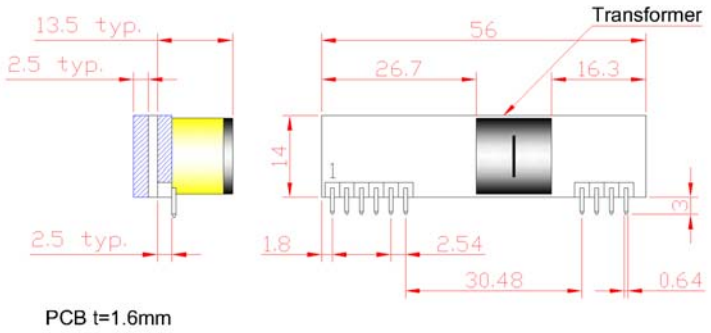
FEATURES

- Fully Supports IEEE 802.3af Compliant
- Input Voltage Range 36V to 57V
- Short Circuit, Over-temperature Protection and In-rush Current Limit
- Default Class : 0 (Adjustable Classifications)
- High Efficiency (85% min. @ Full Load)
- Easy Installation and Low Cost
  √ Included Input Bridge-Diodes
- Low Output Ripple and Noise
- Adjustable Output Voltage
- 1500Vrms Isolation (Input-Output)
- RoHS Compliant

APPLICATION DIAGRAM

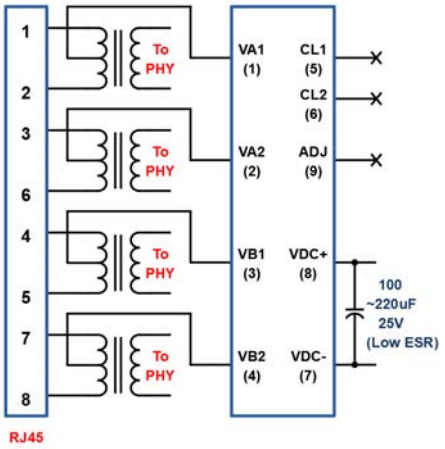


OUTLINE DRAWING



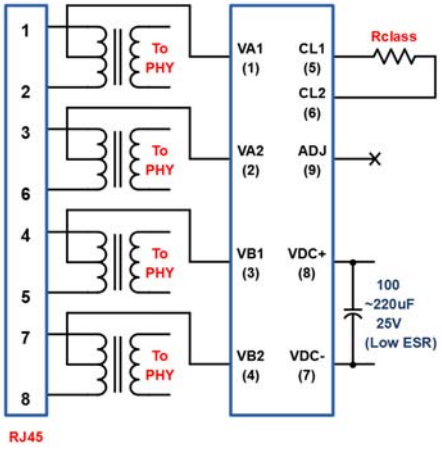
Recommended PC Board Hole Dia.=1mm

TYPICAL CONNECTION



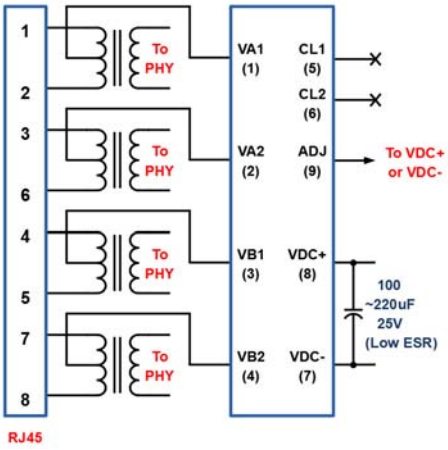
Class : 0 and Vout=12VDC

CLASSIFICATION CONNECTION



Class : 1~3 and Vout=12VDC

VOLTAGE ADJ. CONNECTION



Class : 0 and Vout=12VDC ± Adj.

PIN ASSIGNMENT

Pin #	Name	Description
1	VA1	**Input (1) :** This input pin connects to the centre tap of the transformer connected to pins 1&2 of the RJ45 connector. It is not polarity sensitive.
2	VA2	**Input (2) :** This input pin connects to the centre tap of the transformer connected to pins 3&6 of the RJ45 connector. It is not polarity sensitive.
3	VB1	**Input (3) :** This input pin connects to the centre tap of the transformer connected to pins 4&5 of the RJ45 connector. It is not polarity sensitive.
4	VB2	**Input (4) :** This input pin connects to the centre tap of the transformer connected to pins 7&8 of the RJ45 connector. It is not polarity sensitive.
5	CP1	**Class Programming (1) :** Connect an external resistor to CP2 will classify of the PD.
6	CP2	**Class Programming (2) :** Connect an external resistor to CP1 will classify of the PD.
7	VDC-	**Negative DC Output :** This pin provides the -VDC output.
8	VDC+	**Positive DC Output :** This pin provides the +VDC output.
9	ADJ	**Output Adjust :** The output voltage can be adjusted from nominal value, by connecting this pin to +VDC or -VDC pin
10	NC	**Do not connect to this pin.**

CLASSIFICATION LEVELS AND REQUIRED EXTERNAL RESISTORS

Class	Rclass	Pmin	Pmax
0	Open	0.44W	12.95W
1	301 ohm	0.44W	3.84W
2	154 ohm	3.84W	6.49W
3	97.6 ohm	6.49W	12.95W
4	RESERVED		

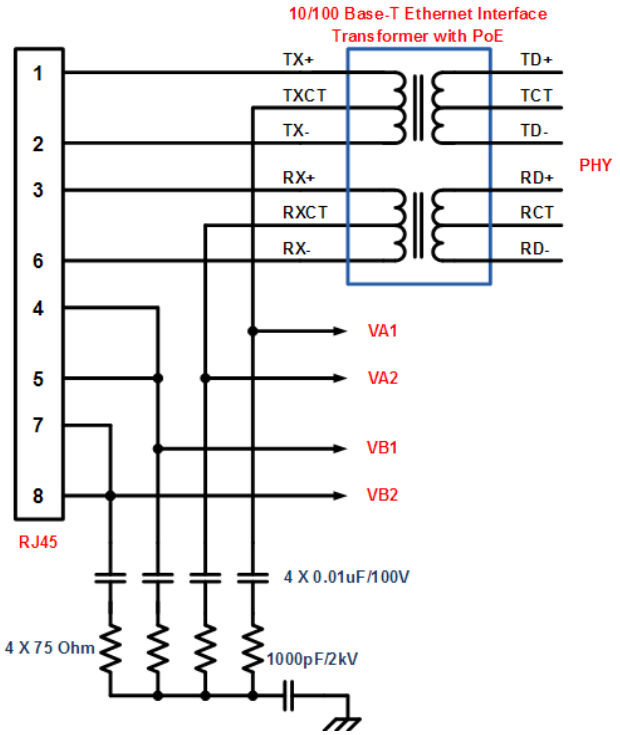
ADJUSTING THE OUTPUT VOLTAGE LEVELS

Reducing the Output Voltage		Increasing the Output Voltage	
Jumper (0-ohm)	Voltage	Jumper (0-ohm)	Voltage
ADJ Pin to VDC+	10.0V	ADJ Pin to VDC-	12.6V
Open	12.0V	Open	12.0V

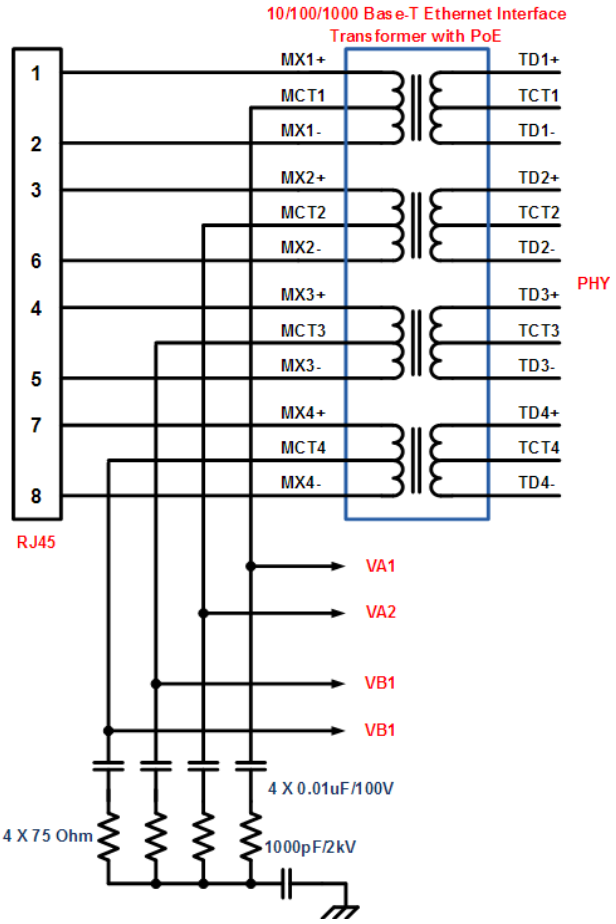
SPECIFICATIONS

No	Item	Specification
1	Input Voltage	36~57V (Nominal : 48V)
2	Output Voltage	12V typ.
3	Output Current (Vin=48V)	1A max.
4	Line Regulation (Vin=36~57V)	0.5%
5	Load Regulation (Vin=48V)	1%
6	Ripple & Noise (Vin=48V, Iout=1A)	200mVp-p max.
7	Efficiency (Vin=48V, Iout=1A)	85% min.
8	Input to Output Isolation	1500 Vrms
9	Type of DC/DC Converter	Flyback Type
10	Short Circuit Protection Duration	Inf.
11	Operating Temperature	-25 ~ 70 ℃
12	Storage Temperature	-40 ~ 100 ℃

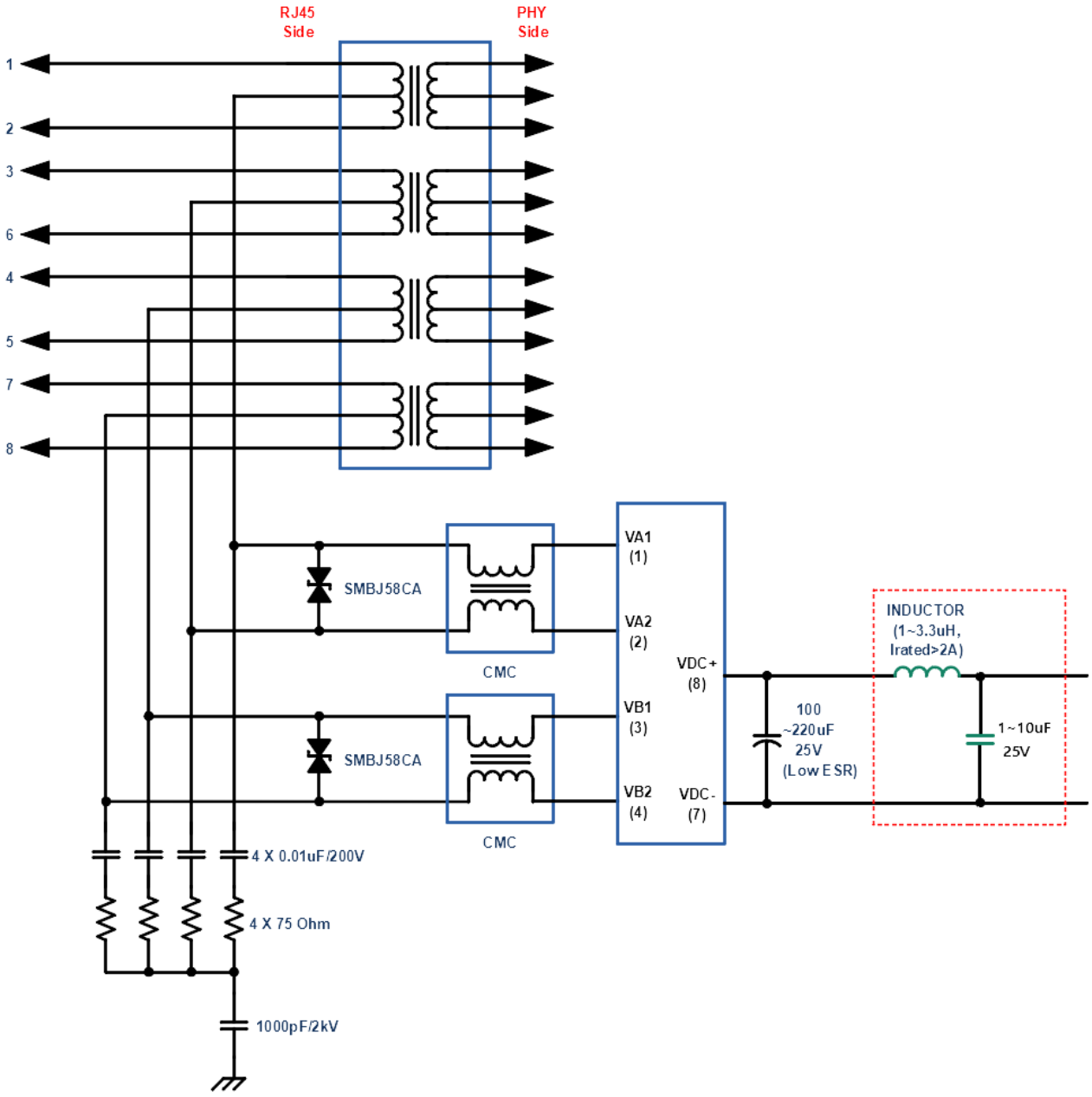
10/100 Base-T APPLICATION



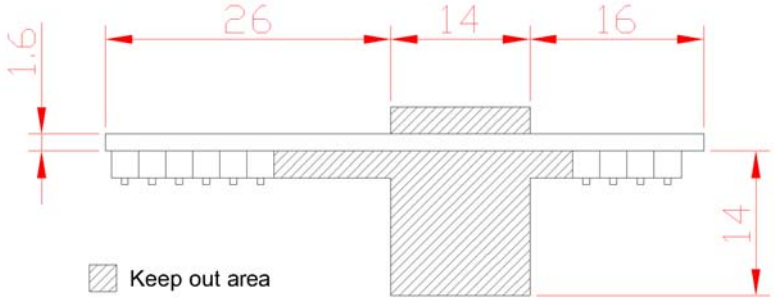
10/100/1000 Base-T APPLICATION



FOR BETTER PERFORMANCE (Option)



LAYOUT RECOMMENDATION



#1906, 53, Gasan Digital 2-ro, Geumcheon-Gu, Seoul 08588, Korea
Tel:+82)2-858-6772, Fax:+82)2-869-9730
E-mail:moatel@moatel.com