

RJ45 10/100/1000 Base-TX Tab down 1x4 Jack with Magnetic Module

ARJ14A

RoHS
Compliant



59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

► FEATURES:

- Tab down
- Available with or without LED
- Suitable CAT 5 & 6 cable and UTP
- Comply IEEE 802.3ab
- LAN Magnetic with RJ45
- Suitable for RoHS compliant reflow

► APPLICATIONS:

- 10, 100 and 1000 Base-T LAN
- NIC, LoM and PC

► STANDARD SPECIFICATIONS at 25°C

Operating temperature range: 0°C to +70°C Storage temperature range: -40°C to +85°C

Part Number	Ratio ± 5%		Tab Option	EMI Fingers (see Mechanical)	LEDs	Insertion Loss (dB typ)	Return Loss (dB typ @100Ω±15%)				
	TX	RX					L/R	0.3- 100 MHz	1- 10 MHz	30 MHz	60-80 MHz
ARJ14A-M□SA-MU2	1CT:1CT	1CT:1CT	DOWN	Yes/No	-	-1.2	-18	-16	-12		
ARJ14A-M□SB-MU2	1CT:1CT	1CT:1CT	DOWN	Yes/No	-	-1.2	-18	-16	-12		
ARJ14A-M□SC-MU2	1CT:1CT	1CT:1CT	DOWN	Yes/No	-	-1.2	-18	-16	-12		
ARJ14A-M□SD-A-B-△MU2	1CT:1CT	1CT:1CT	DOWN	Yes	G/Y	-1.2	-18	-16	-12		
ARJ14A-M□SD-MU2	1CT:1CT	1CT:1CT	DOWN	Yes/No	-	-1.2	-18	-16	-12		

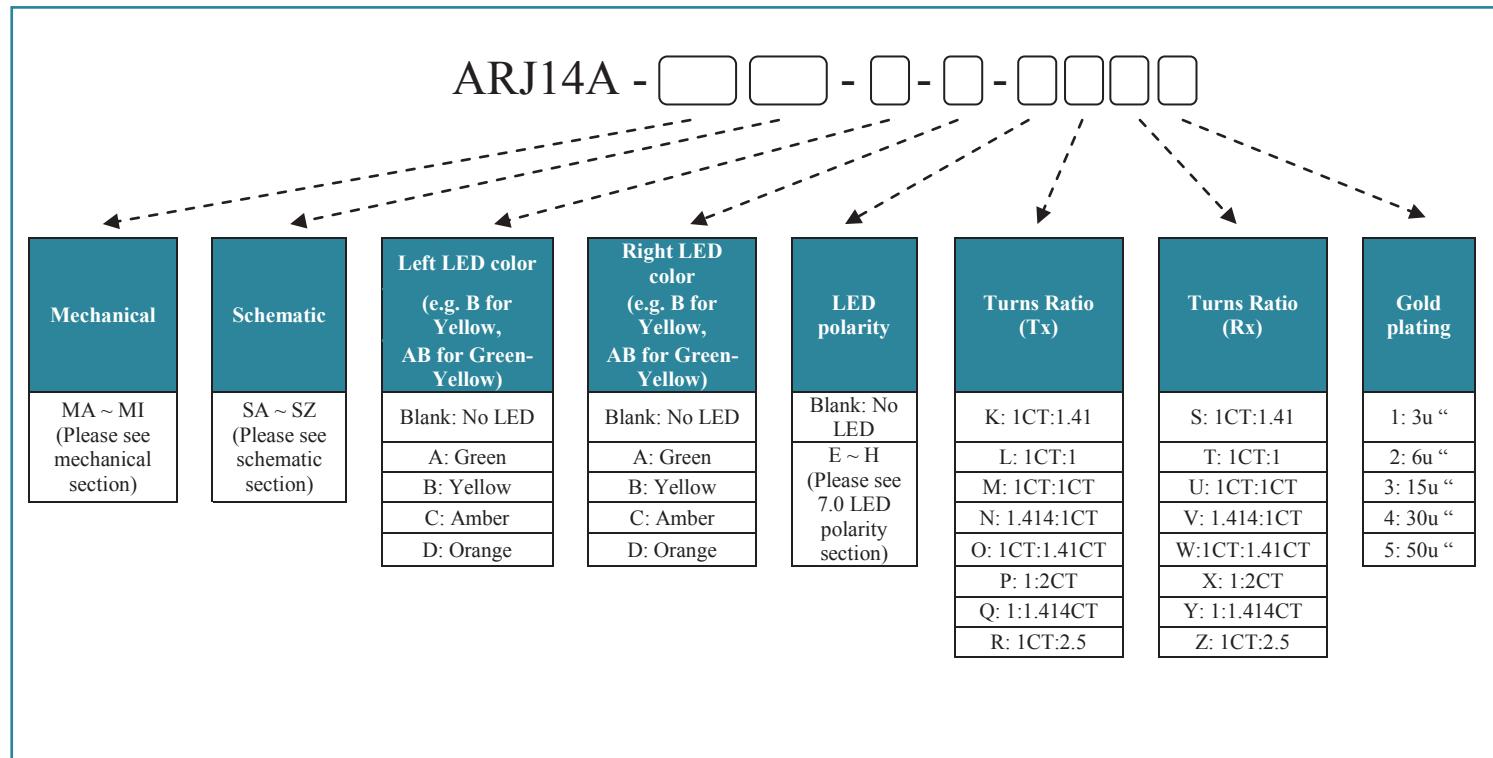
Part Number	Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		Hipot (Vrms)
	1 - 10 MHz	30 - 60 MHz	60 - 100 MHz	1 - 50 MHz	50 - 130 MHz	
ARJ14A-M□SA-MU2	-40	-35	-30	-30	-20	1500
ARJ14A-M□SB-MU2	-30	-30	-30	-30	-20	1500
ARJ14A-M□SC-MU2	-40	-35	-30	-30	-20	1500
ARJ14A-M□SD-A-B-△MU2	-40	-35	-30	-30	-20	1500
ARJ14A-M□SD-MU2	-40	-35	-30	-30	-20	1500

□: Mechanical option: E, F or I for non- LED; A or B for LED.

△: LED polarity option E or F

Contact Abracon for more custom configurations. See options to build a custom configuration.

► OPTIONS AND PART IDENTIFICATION

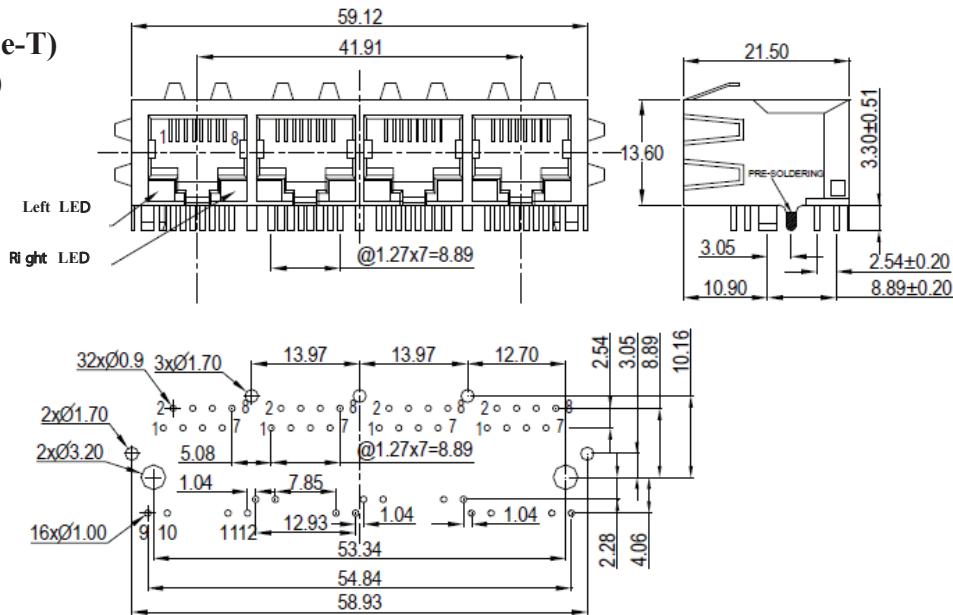




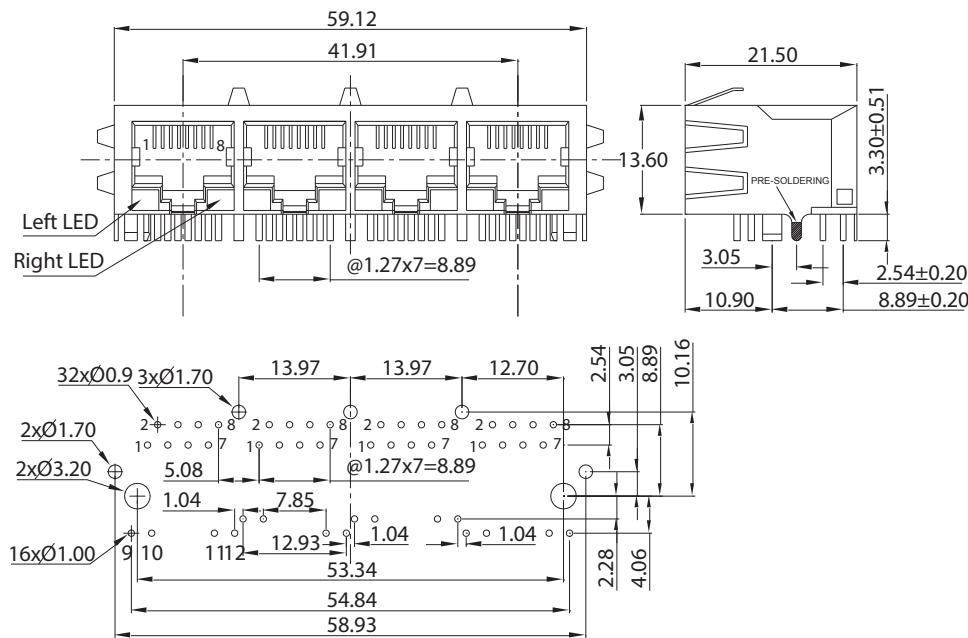
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MECHANICAL DIMENSIONS

**MA (10/100 Base-T)
(8 EMI Fingers)**



**MB (10/100 Base-T)
(3 EMI Fingers)**

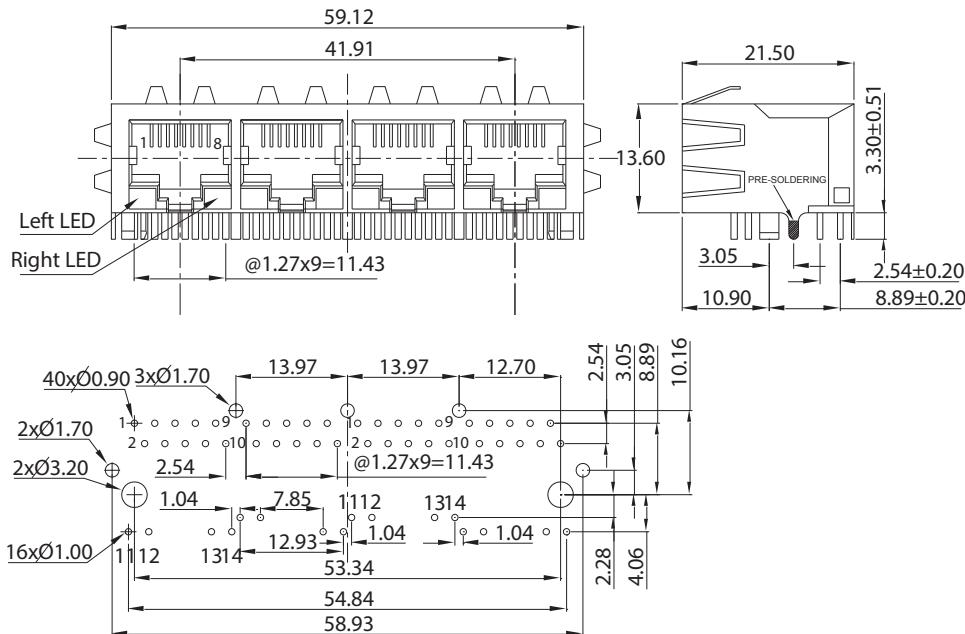




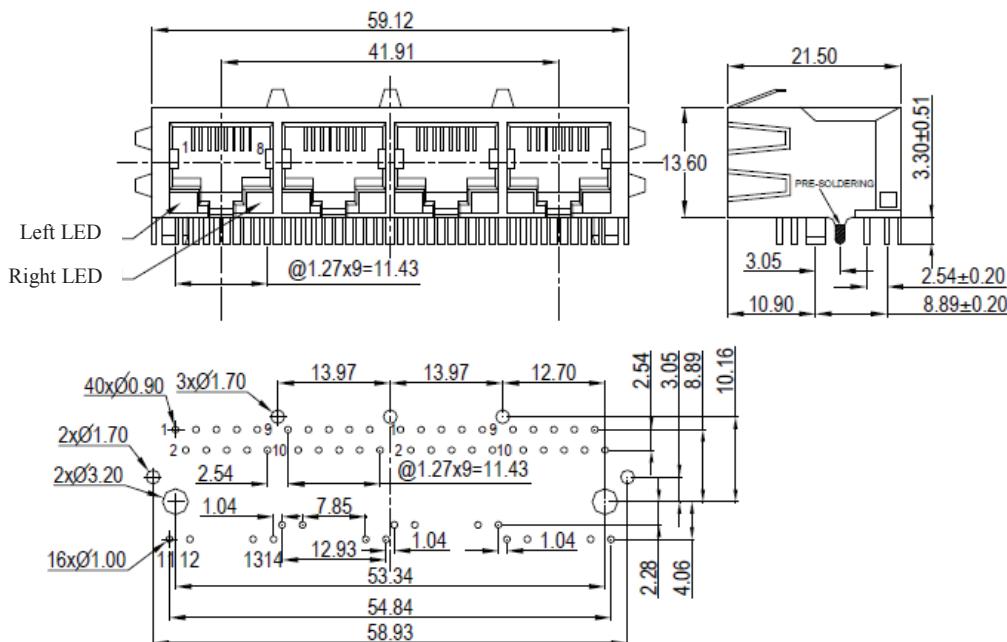
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MECHANICAL DIMENSIONS

**MC (1000 Base-T)
(8 EMI Fingers)**



**MD (1000 Base-T)
(3 EMI Fingers)**

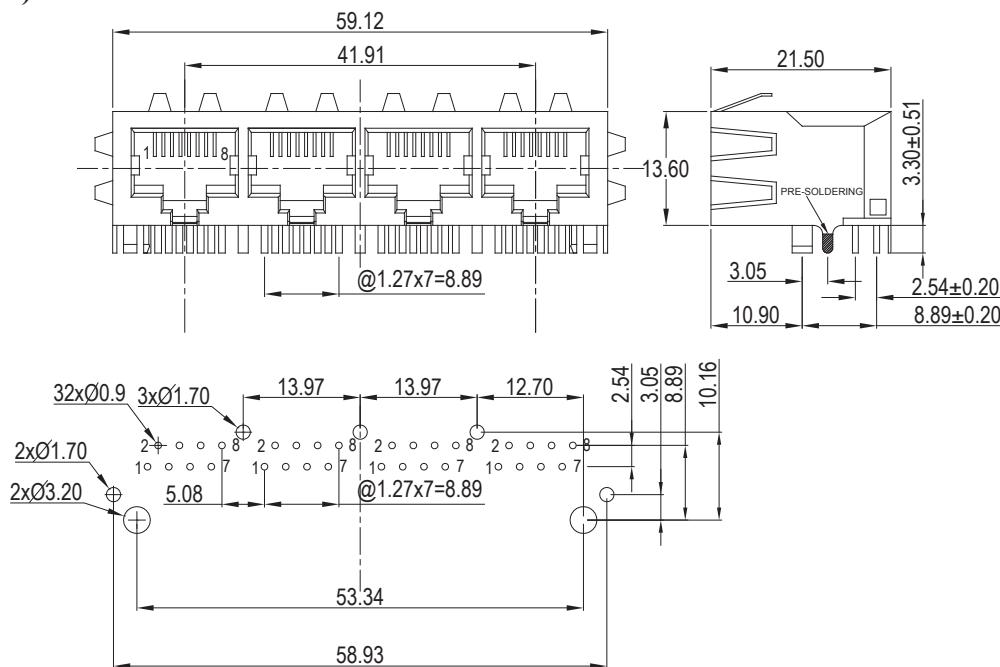




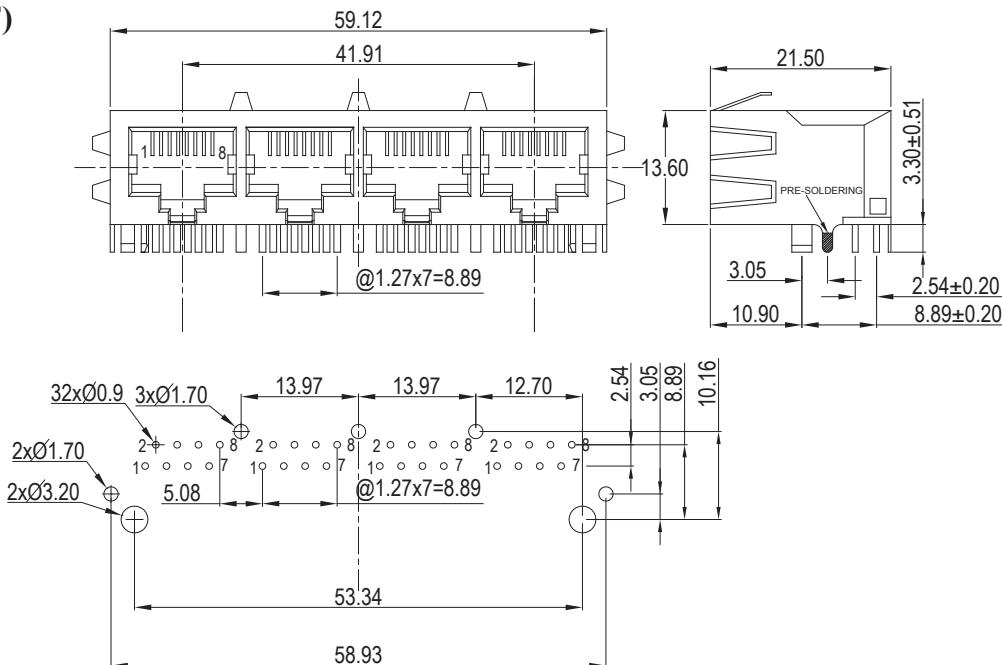
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MECHANICAL DIMENSIONS

**ME (10/100 Base-T)
(8 EMI Fingers)**



**MF (10/100 Base-T)
(3 EMI Fingers)**

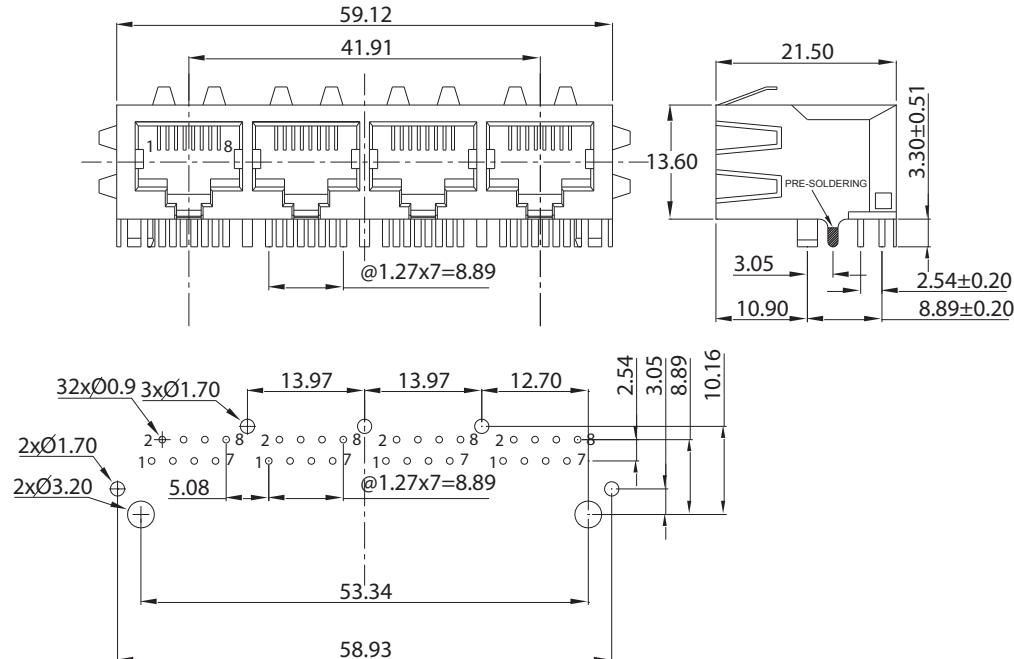




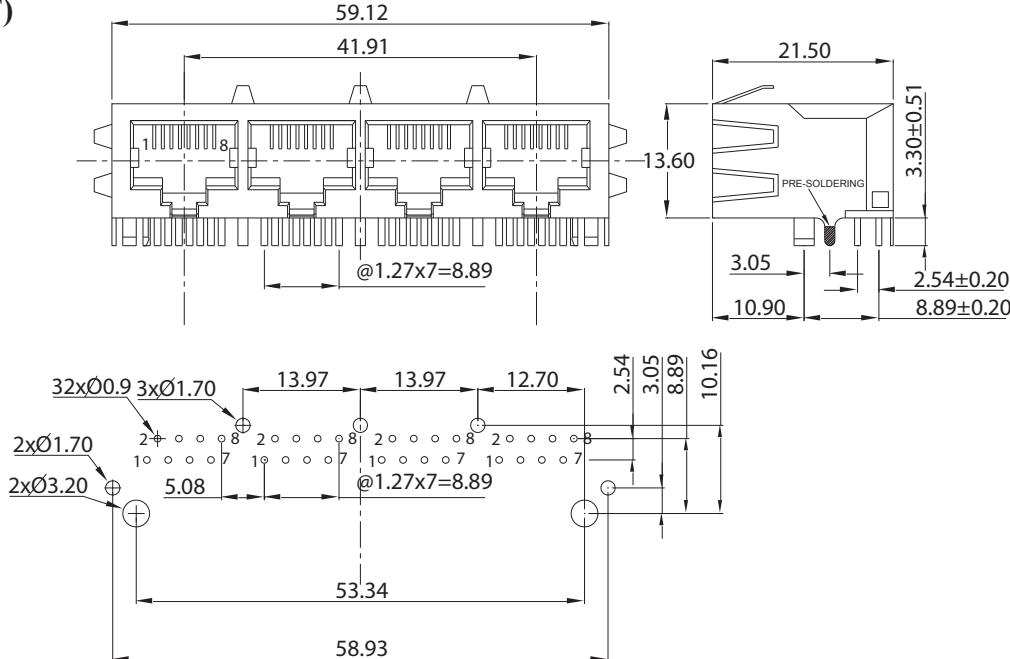
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MECHANICAL DIMENSIONS

**ME (10/100 Base-T)
(8 EMI Fingers)**



**MF (10/100 Base-T)
(3 EMI Fingers)**

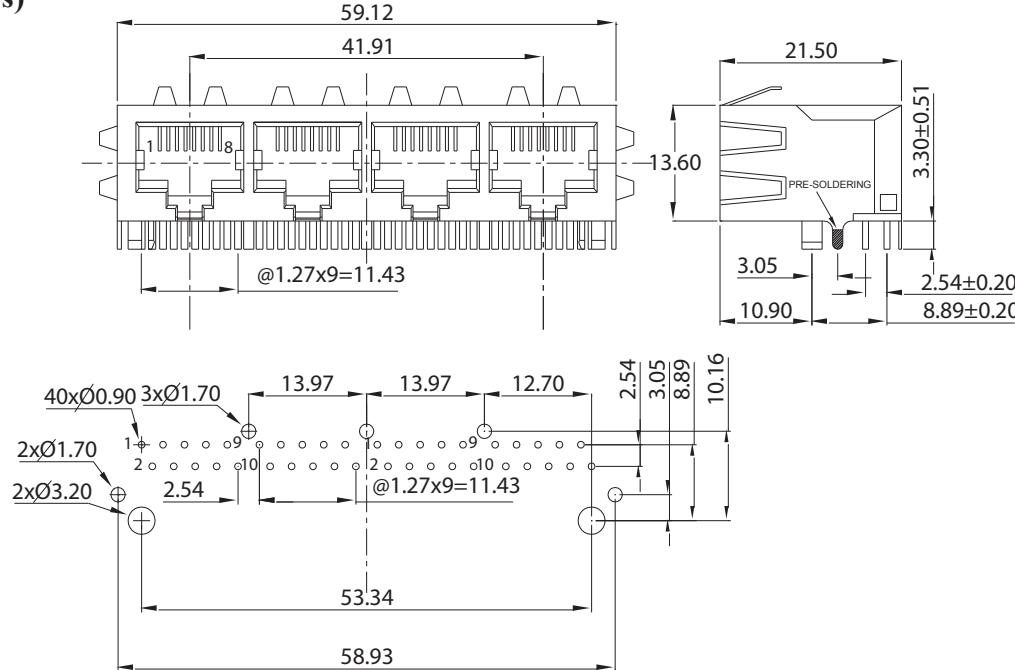




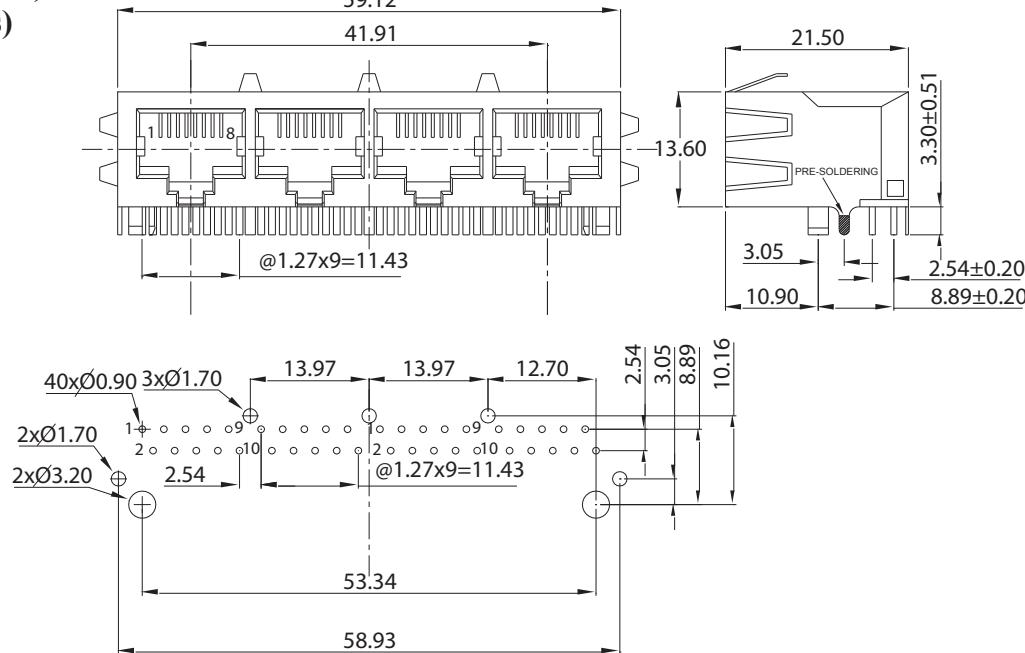
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MECHANICAL DIMENSIONS

**MG (1000 Base-T)
(8 EMI Fingers)**



**MH (1000 Base-T)
(3 EMI Fingers)**



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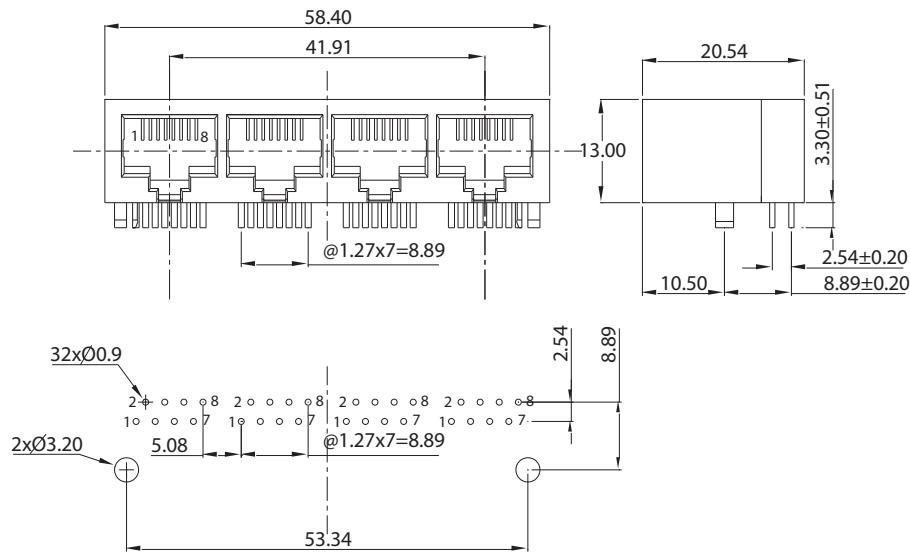
RoHS
Compliant



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MECHANICAL DIMENSIONS

MI (10/100 Base-T)



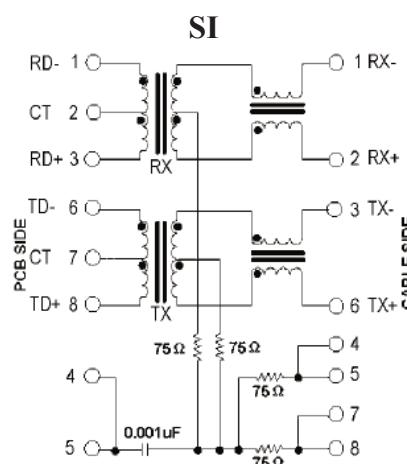
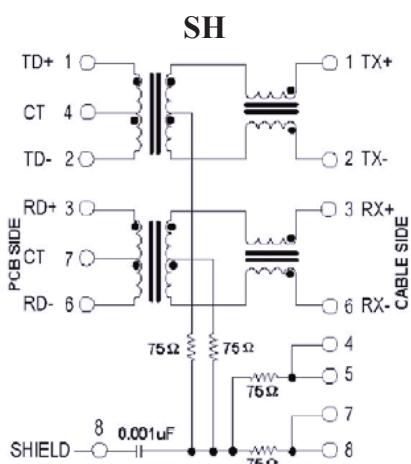
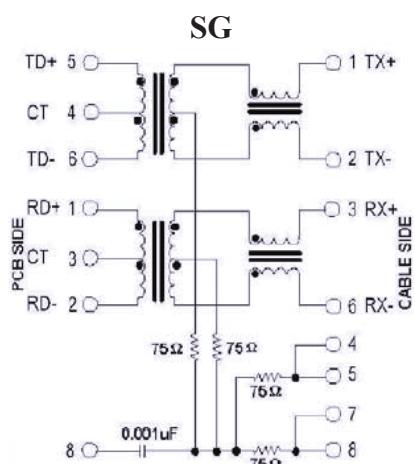
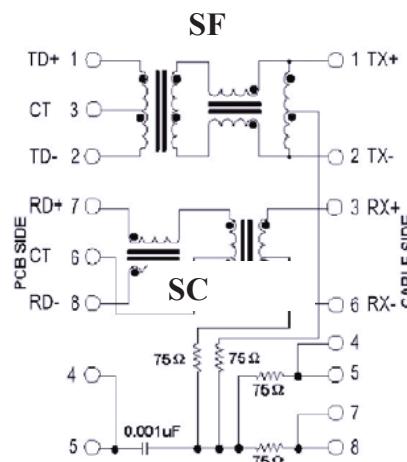
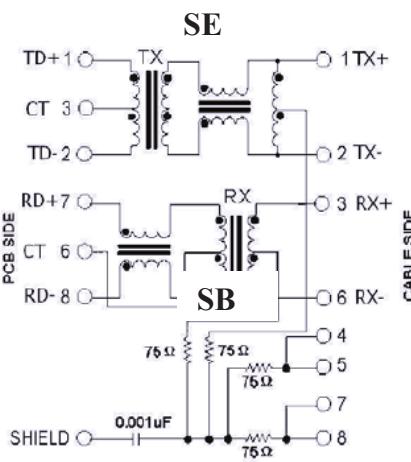
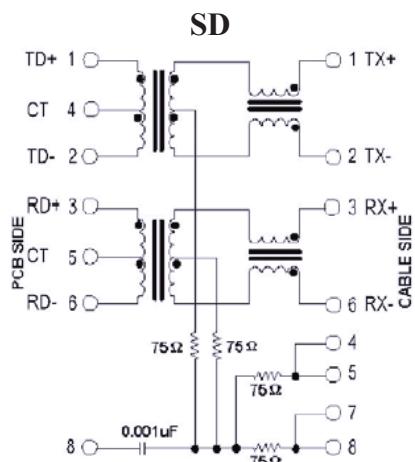
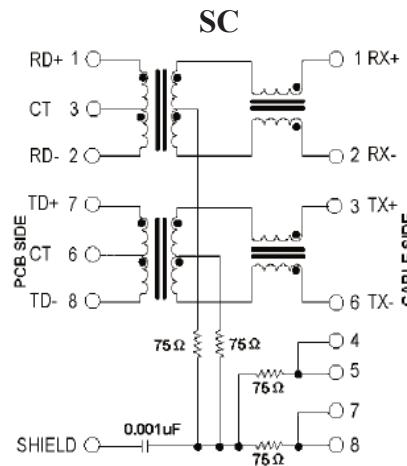
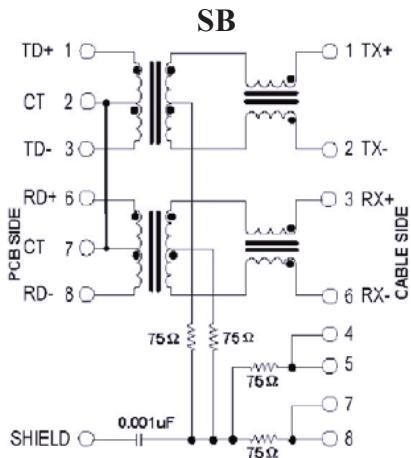
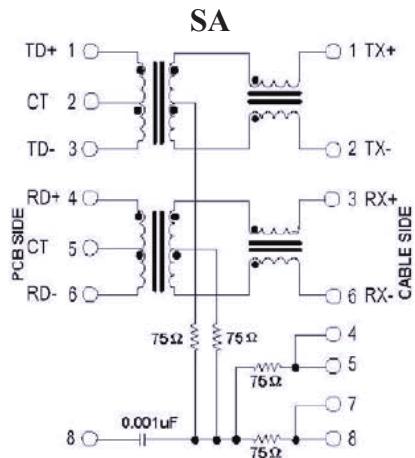
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SCHEMATICS



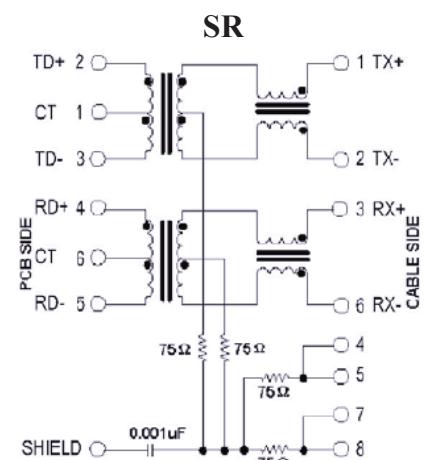
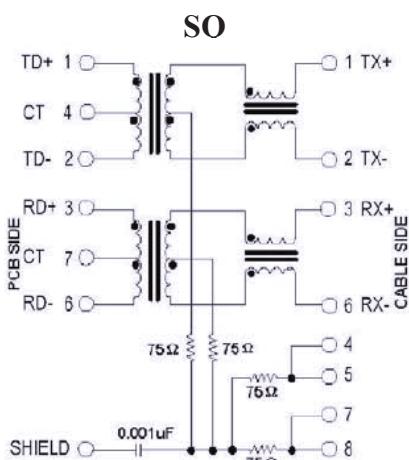
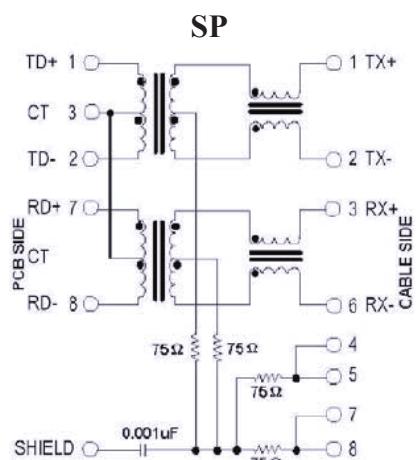
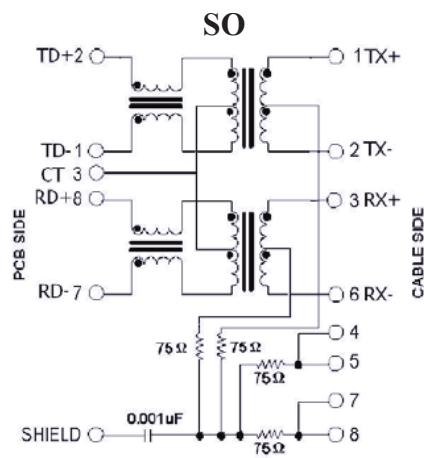
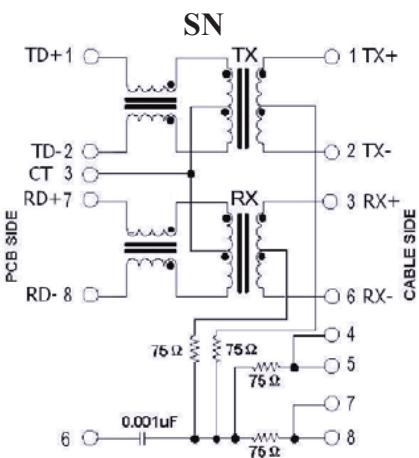
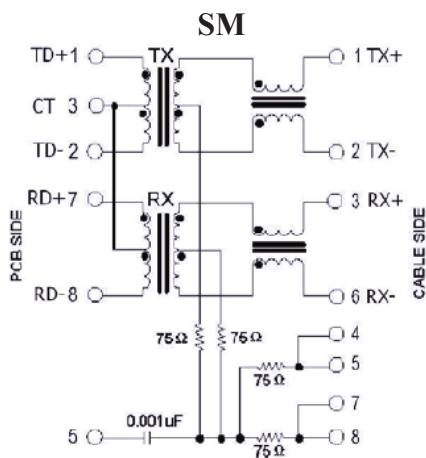
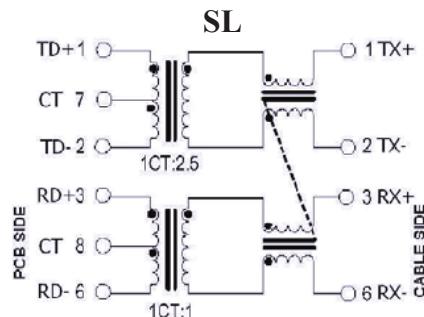
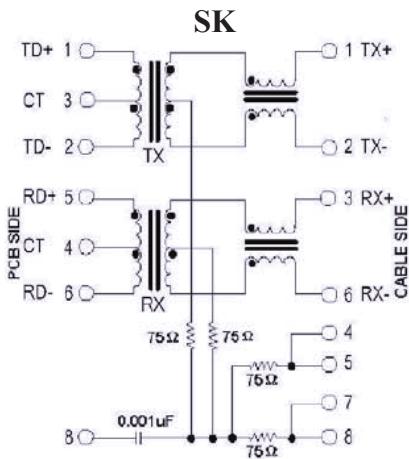
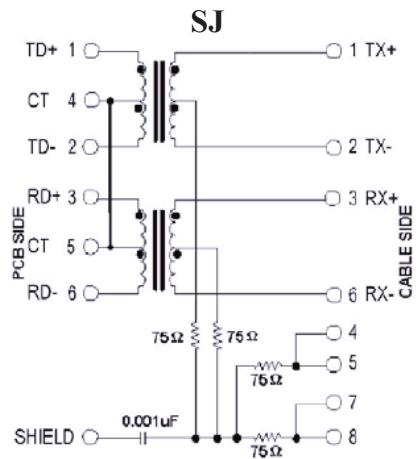
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> SCHEMATICS - continued



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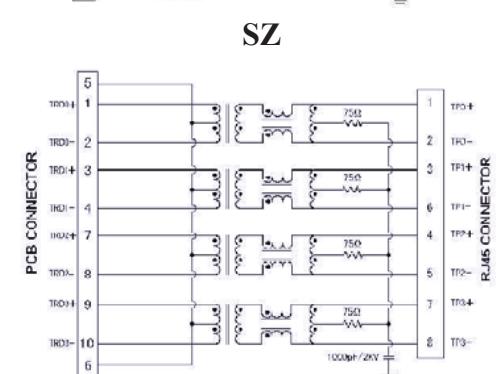
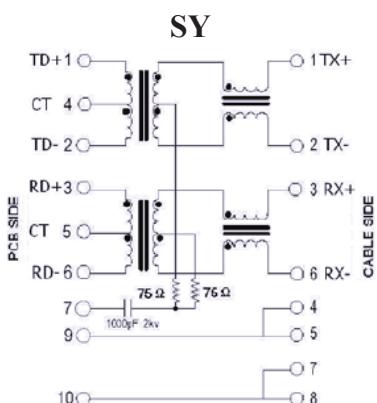
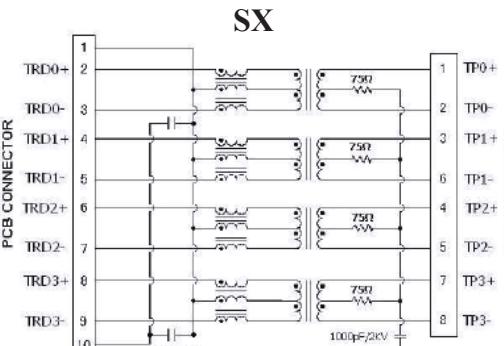
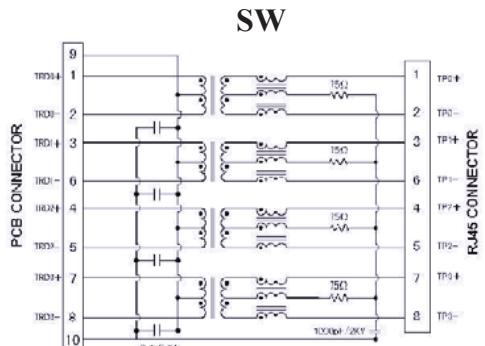
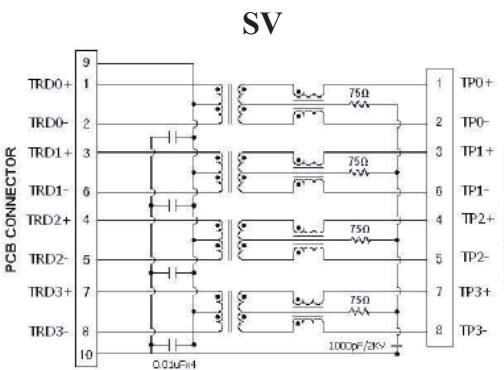
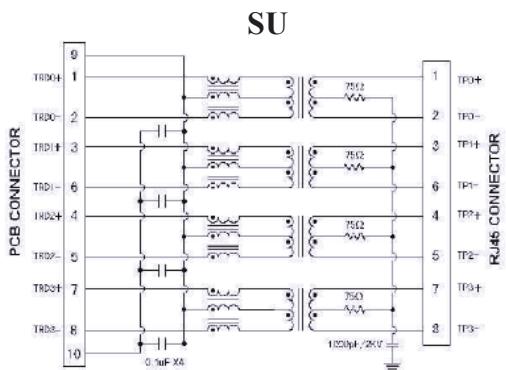
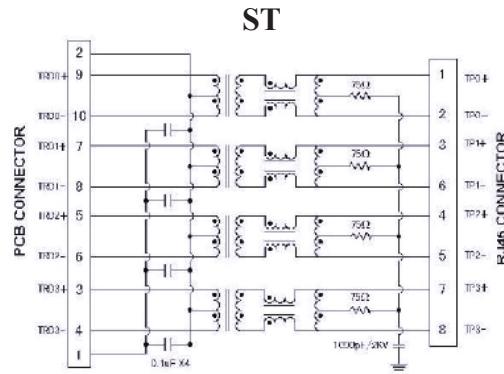
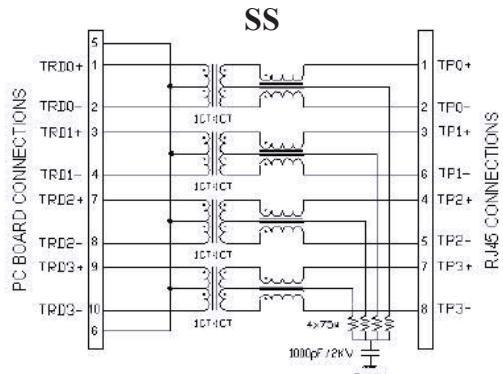
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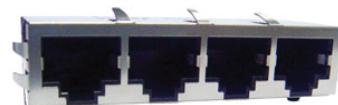
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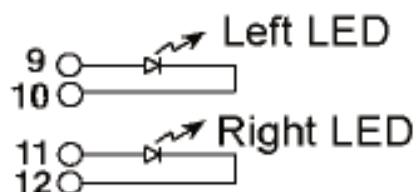


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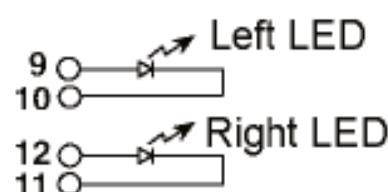
LED POLARITY

8PIN:

E

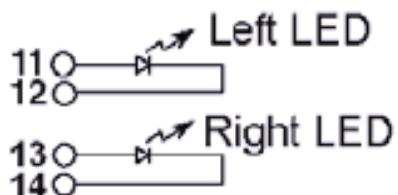


F

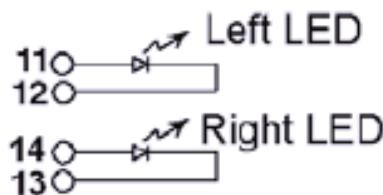


10PIN:

G



H



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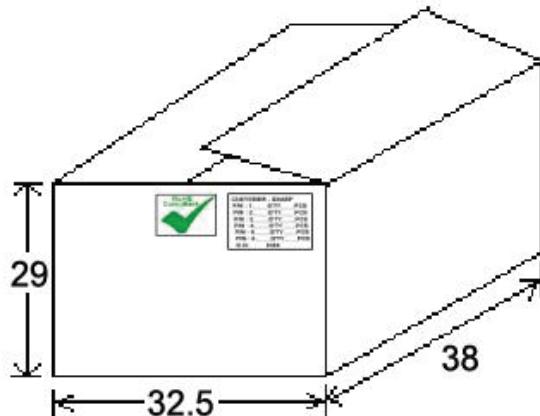
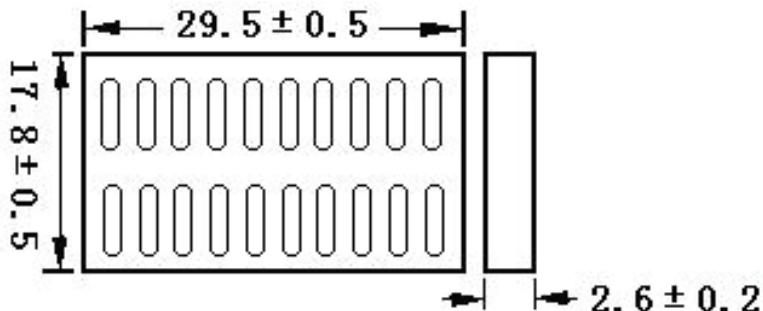


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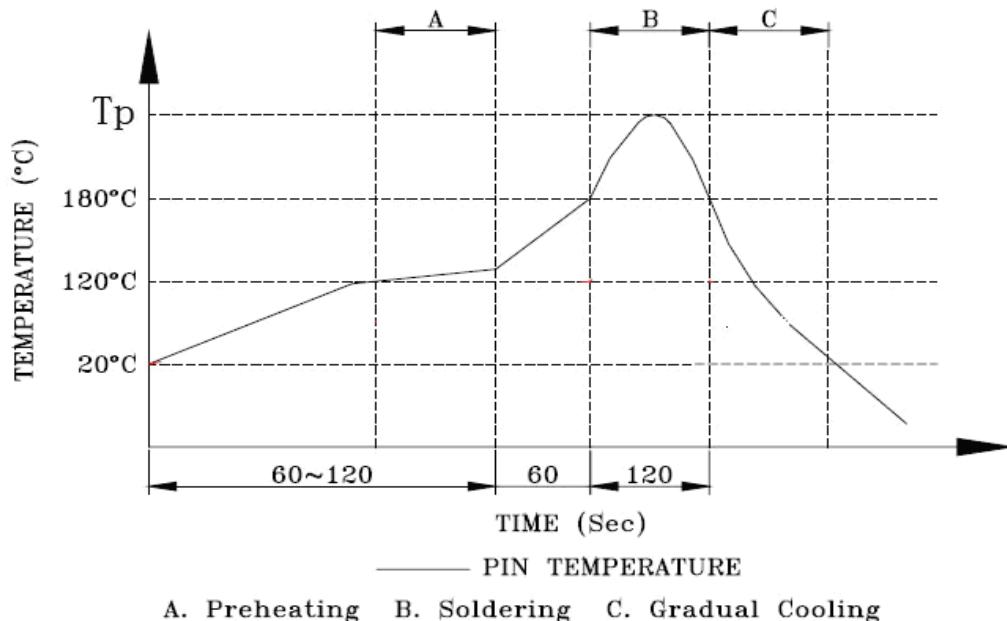
PACKING: 20pcs/tray

Packaging material: PET

Outer carton unit 400 pcs/ 20 Trays/box



REFLOW PROFILE:



Peak temperature(T_p) : $250 \pm 10^\circ\text{C}$

Peak temperature(T_p) time : 5sec max

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