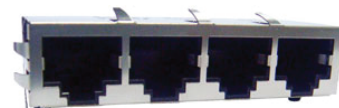


RJ45 10/100/1000 Base-TX Tab down 1x4 Jack with Magnetic Module

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 L/R	Insertion Loss (dB typ) 0.3- 100 MHz	Return Loss (dB typ @100Ω±15%)		
	TX	RX					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-ΔMU2	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-ΔMU2	-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.

Δ: LED polarity option E or F

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

OPTIONS AND PART IDENTIFICATION

ARJ14A - □ - □ - □ - □ - □ - □ - □

Mechanical	Schematic	Left LED color (e.g. B for Yellow, AB for Green-Yellow)	Right LED color (e.g. B for Yellow, AB for Green-Yellow)	LED polarity	Turns Ratio (Tx)	Turns Ratio (Rx)	Gold plating
MA ~ MI (Please see mechanical section)	SA ~ SZ (Please see schematic section)	Blank: No LED	Blank: No LED	Blank: No LED	K: 1CT:1.41	S: 1CT:1.41	1: 3u “
		A: Green	A: Green	E ~ H (Please see 7.0 LED polarity section)	L: 1CT:1	T: 1CT:1	2: 6u “
		B: Yellow	B: Yellow		M: 1CT:1CT	U: 1CT:1CT	3: 15u “
		C: Amber	C: Amber		N: 1.414:1CT	V: 1.414:1CT	4: 30u “
		D: Orange	D: Orange		O: 1CT:1.41CT	W: 1CT:1.41CT	5: 50u “
					P: 1:2CT	X: 1:2CT	
					Q: 1:1.414CT	Y: 1:1.414CT	
					R: 1CT:2.5	Z: 1CT:2.5	

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2 Faraday, Suite# B | Irvine | CA 92618 **Revised: 01.26.16**
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RJ45 10/100/1000 Base-TX Tab down 1x4 Jack with Magnetic Module

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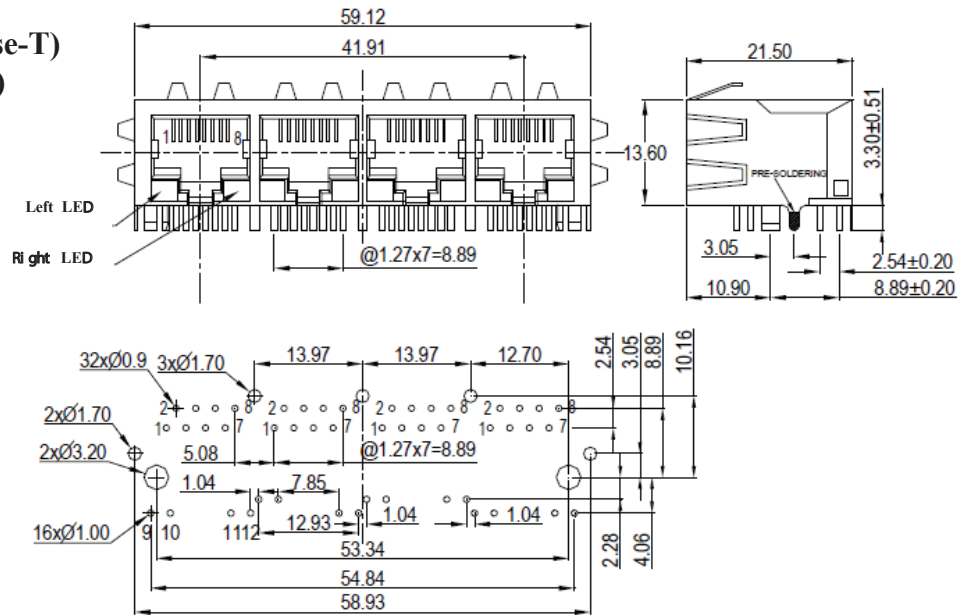
RoHS
Compliant



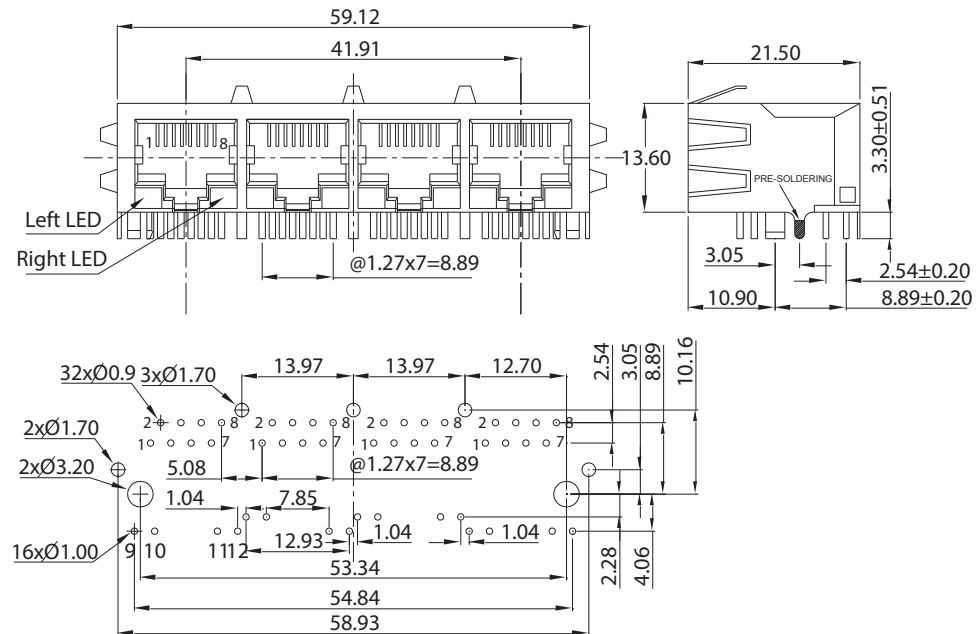
59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

MECHANICAL DIMENSIONS

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



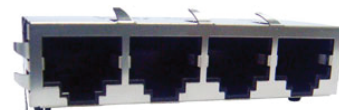
MB (10/100 Base-T) (3 EMI Fingers)



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

ARJ14A

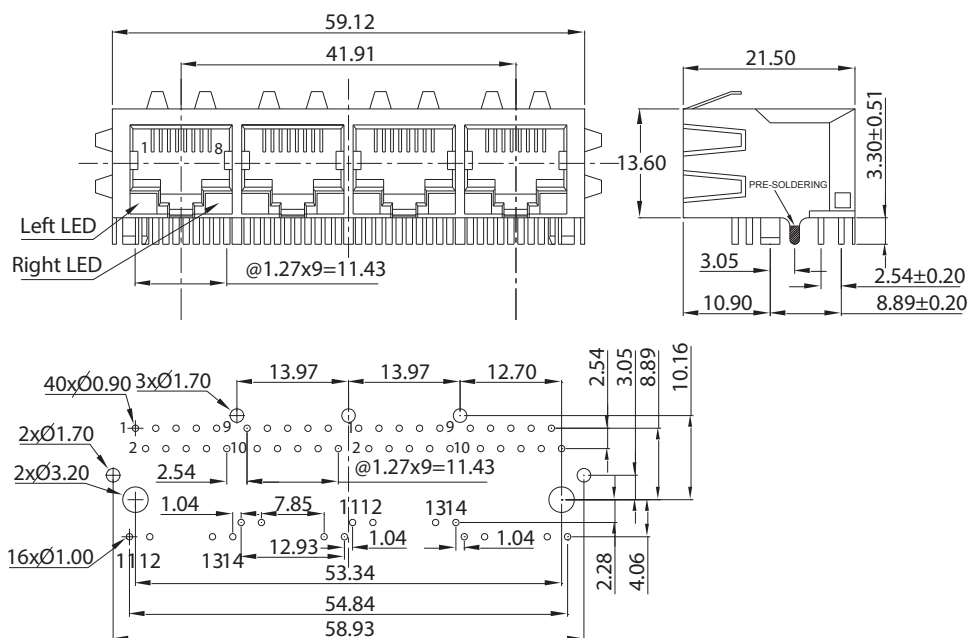
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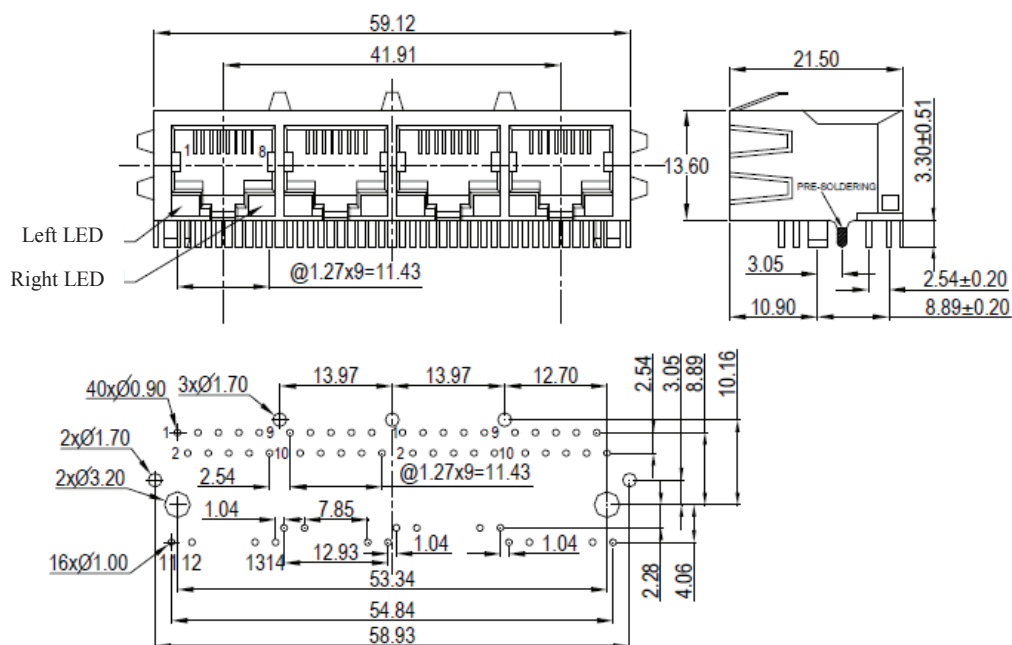
59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

MECHANICAL DIMENSIONS

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



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



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

ARJ14A

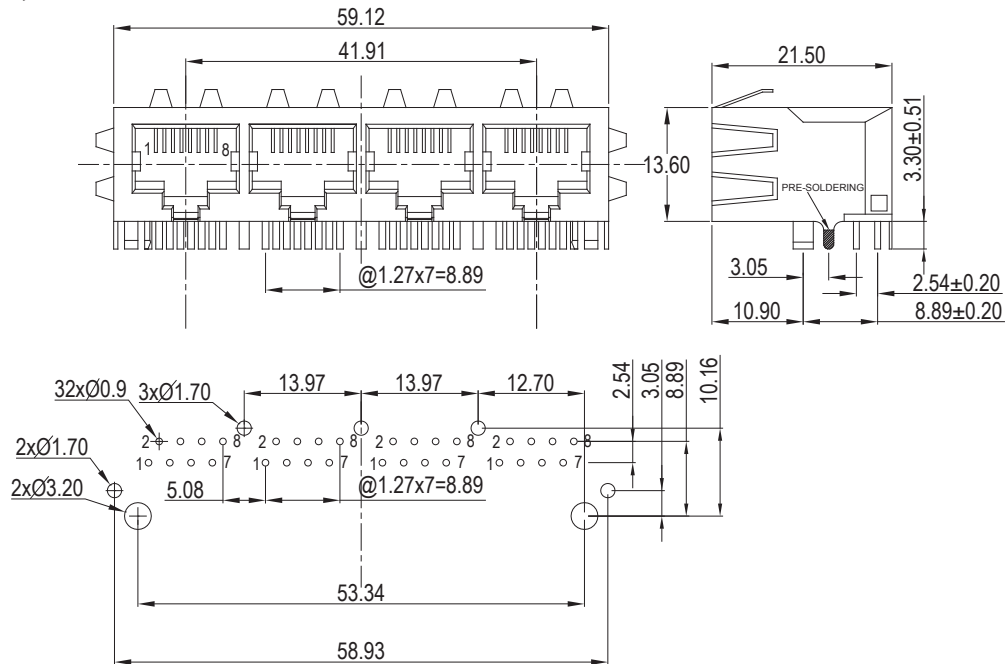
RoHS
Compliant



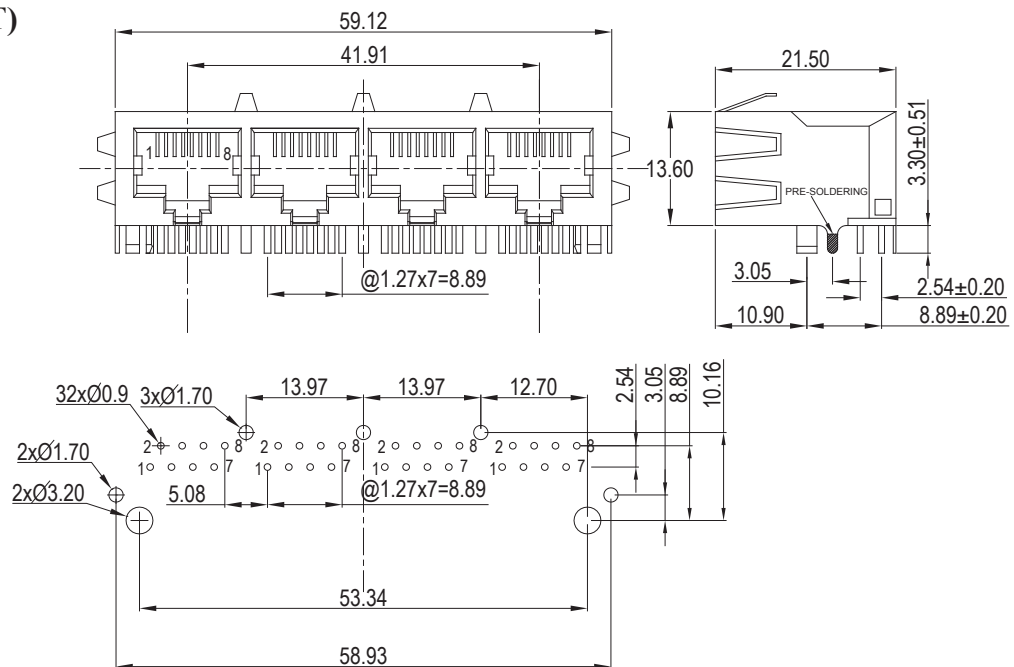
59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

MECHANICAL DIMENSIONS

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



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



**RoHS
Compliant**

MECHANICAL DIMENSIONS

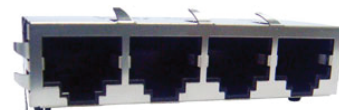
1)

Technical drawings of a 4-pin connector. The top drawing is a side view showing a length of 59.12, a pin pitch of 1.27x7=8.89, and a height of 13.60. The right drawing is a cross-section showing a width of 21.50, a height of 3.30±0.51, and a pre-soldering area. The bottom drawing is a top view showing a total width of 58.93, a pin pitch of 1.27x7=8.89, and various hole diameters and positions.

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

ARJ14A

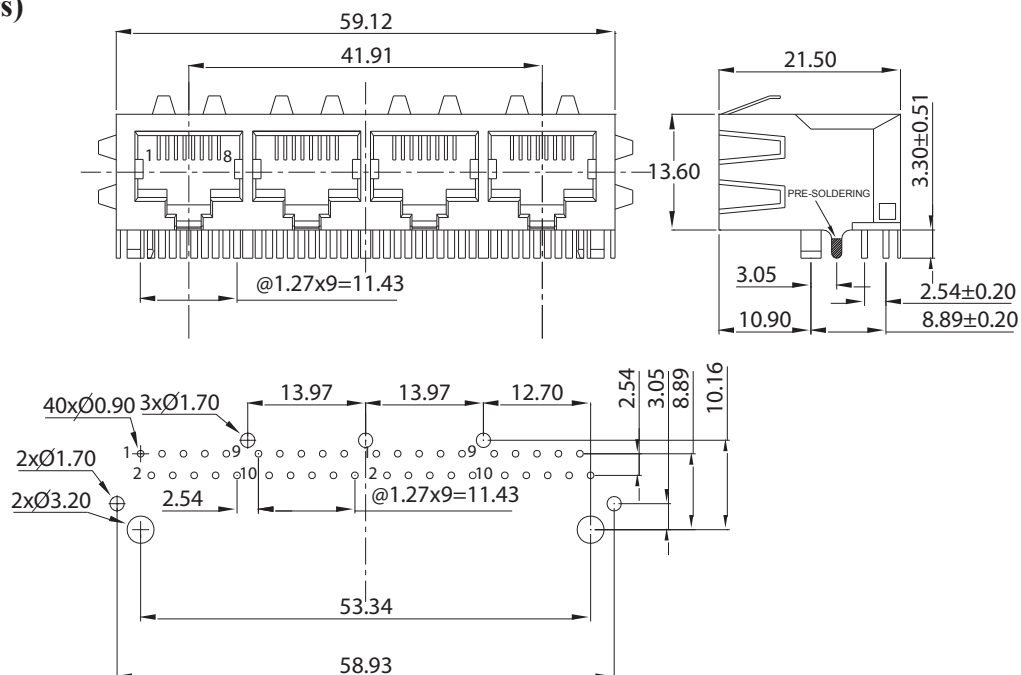
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Compliant



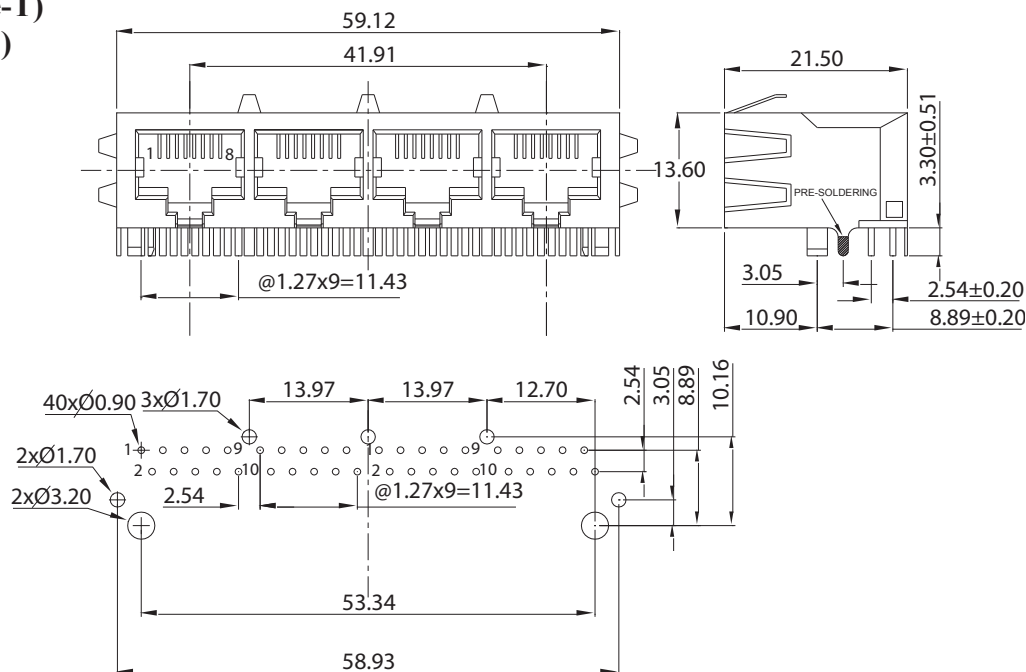
59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

MECHANICAL DIMENSIONS

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



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



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

ARJ14A

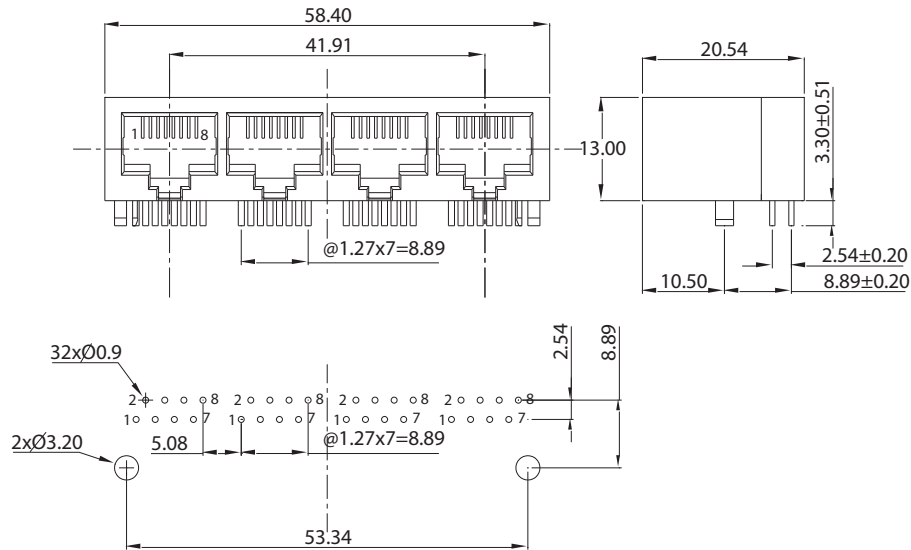
RoHS
Compliant



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

MECHANICAL DIMENSIONS

MI (10/100 Base-T)



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

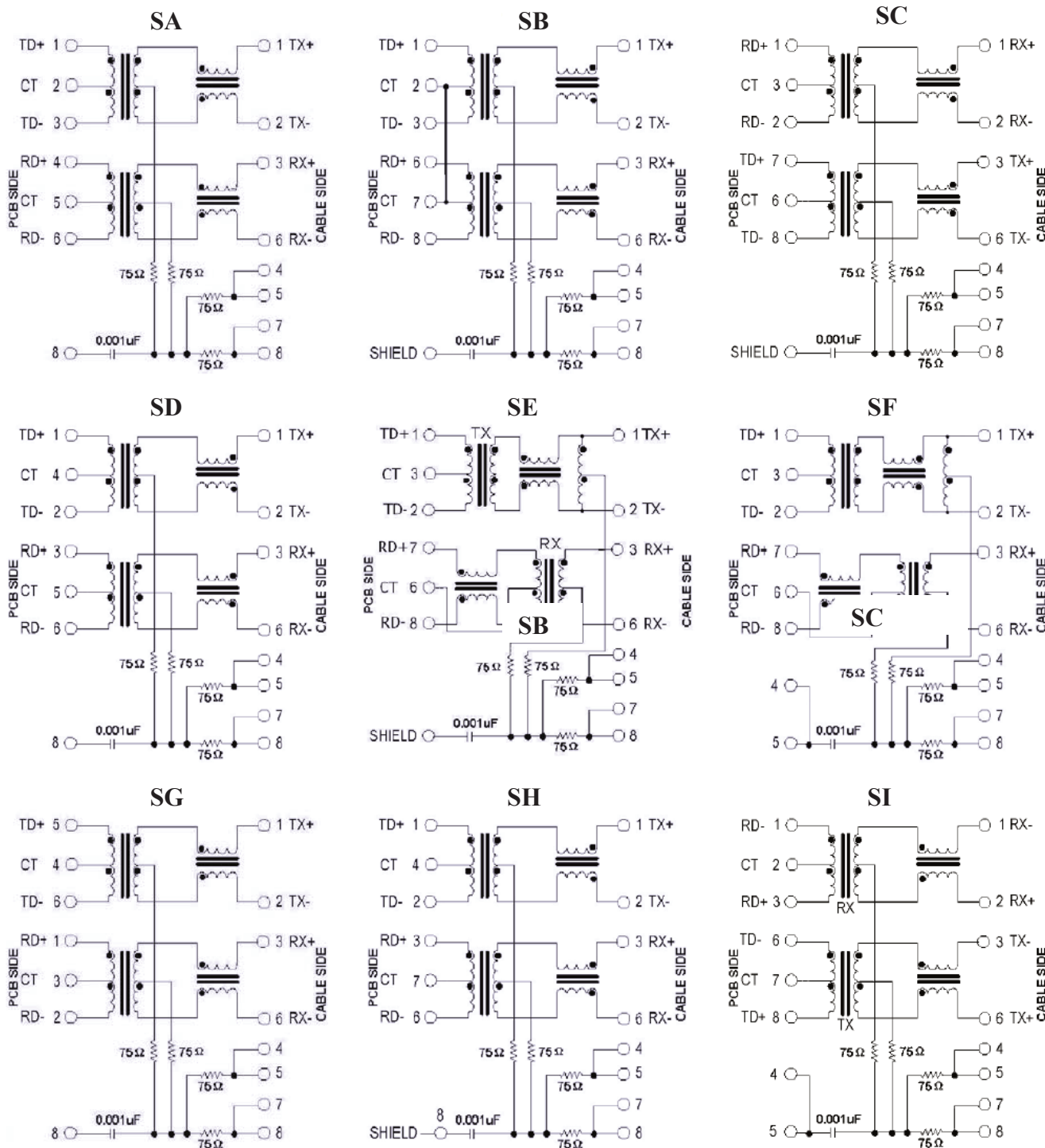
ARJ14A

RoHS
Compliant



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

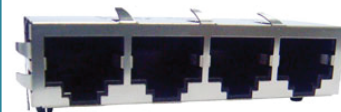
SCHEMATICS



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

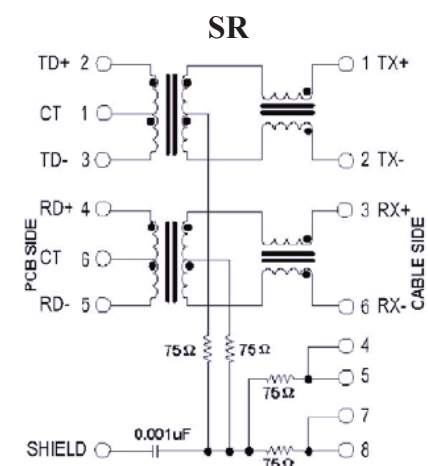
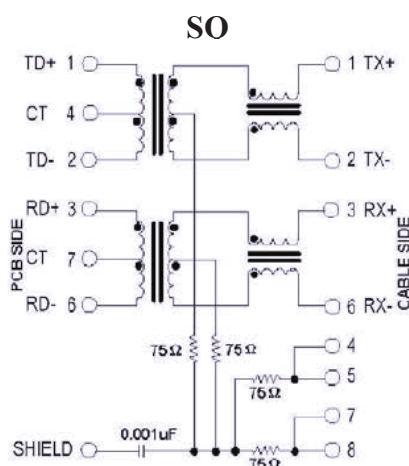
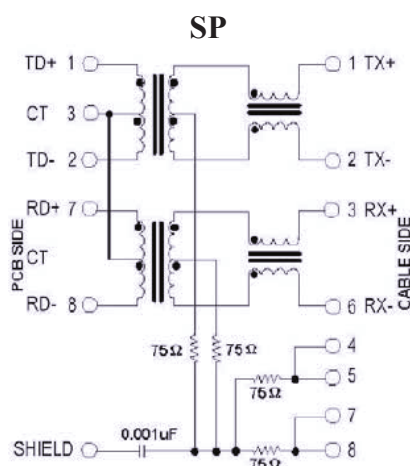
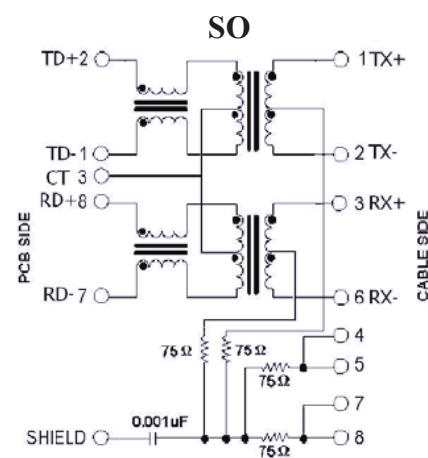
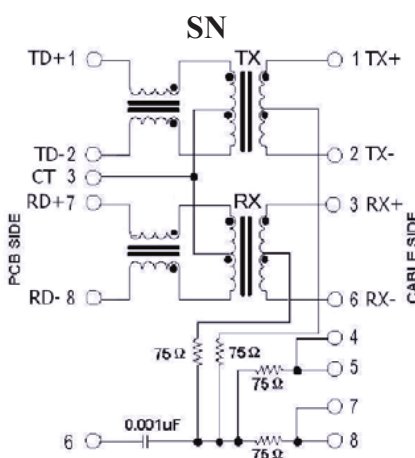
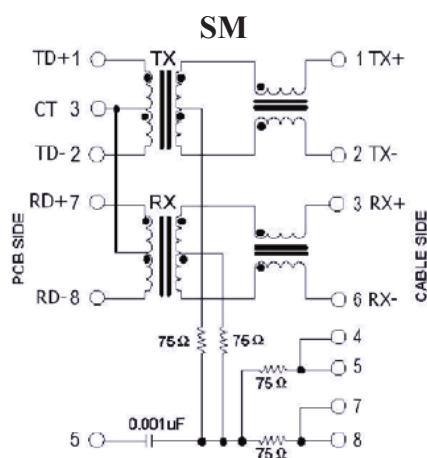
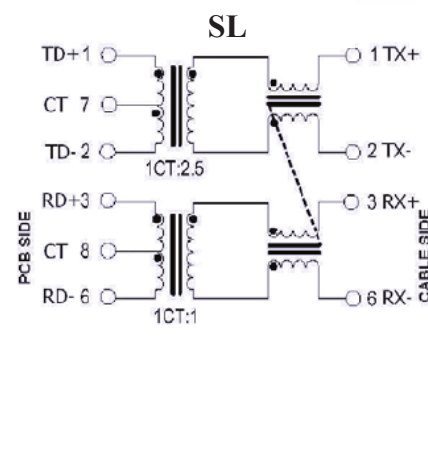
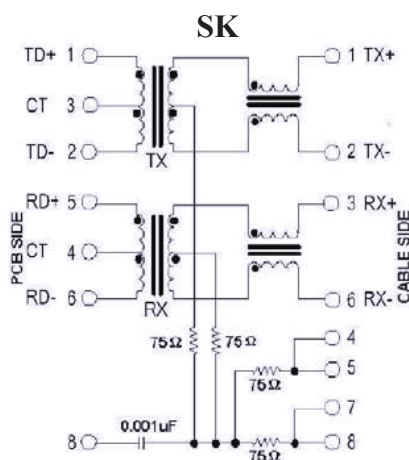
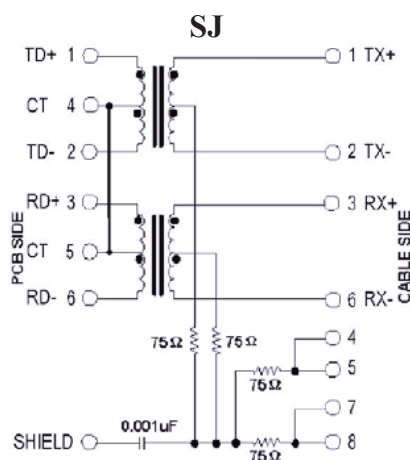
ARJ14A

RoHS
Compliant



59.12 x 13.60 x 21.50 mm /
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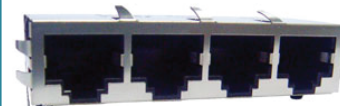
SCHEMATICS - continued



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

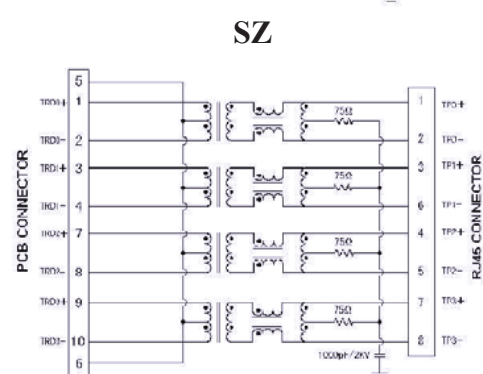
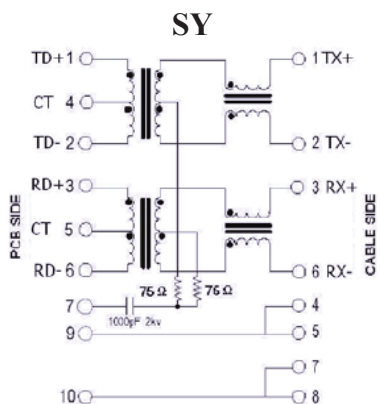
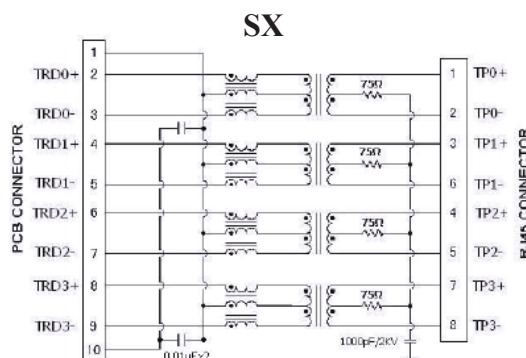
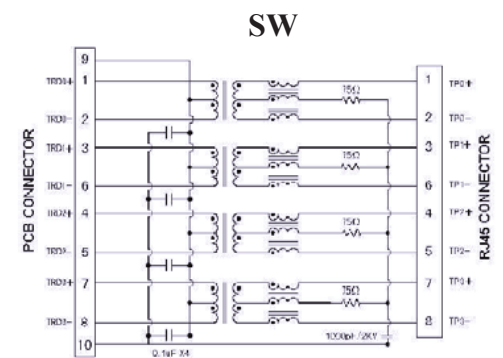
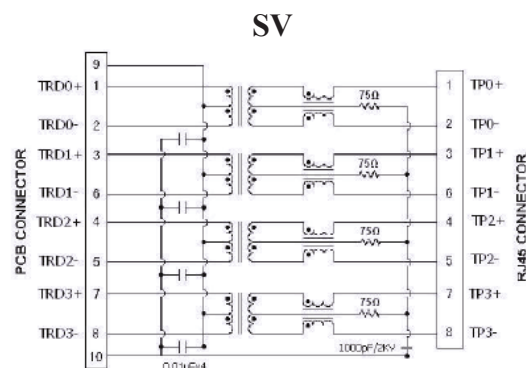
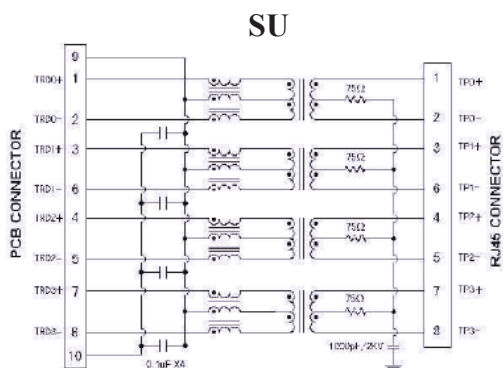
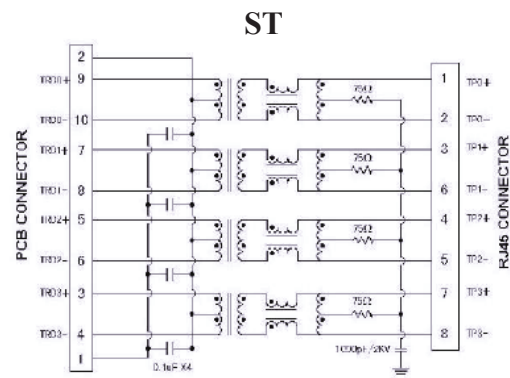
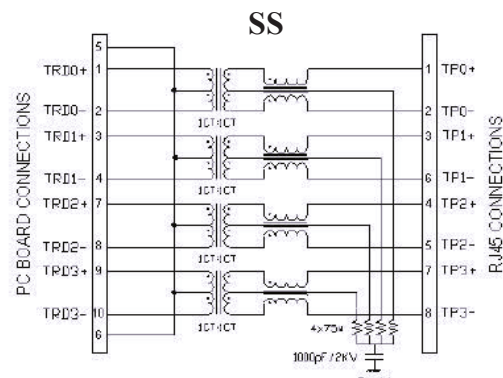
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59.12 x 13.60 x 21.50 mm /
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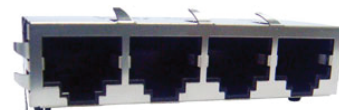
SCHEMATICS



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

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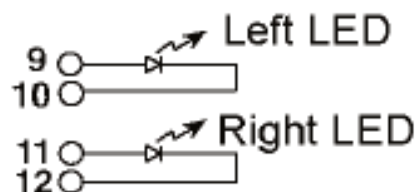


59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

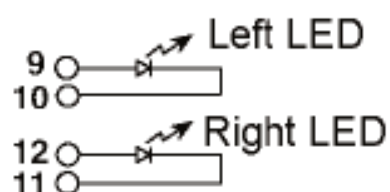
LED POLARITY

8PIN:

E

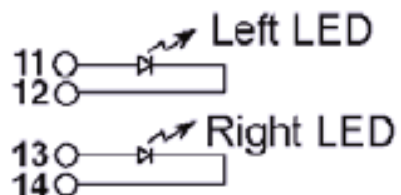


F

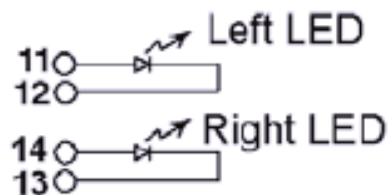


10PIN:

G



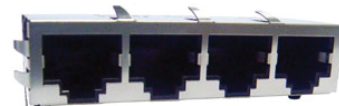
H



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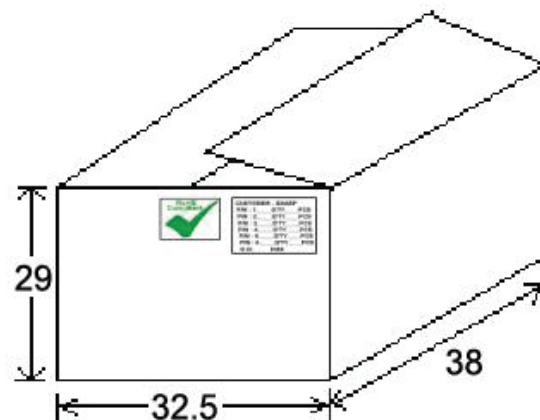
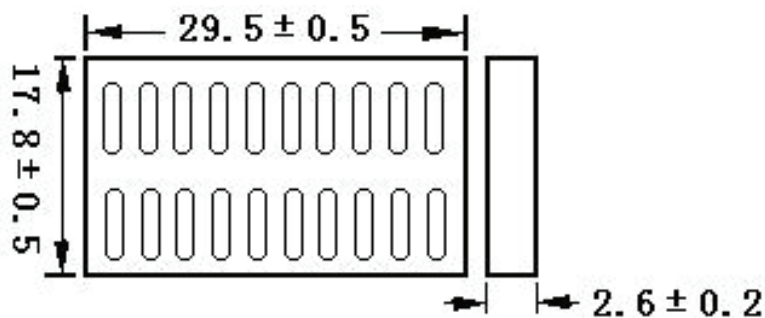


59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

PACKING: 20pcs/tray

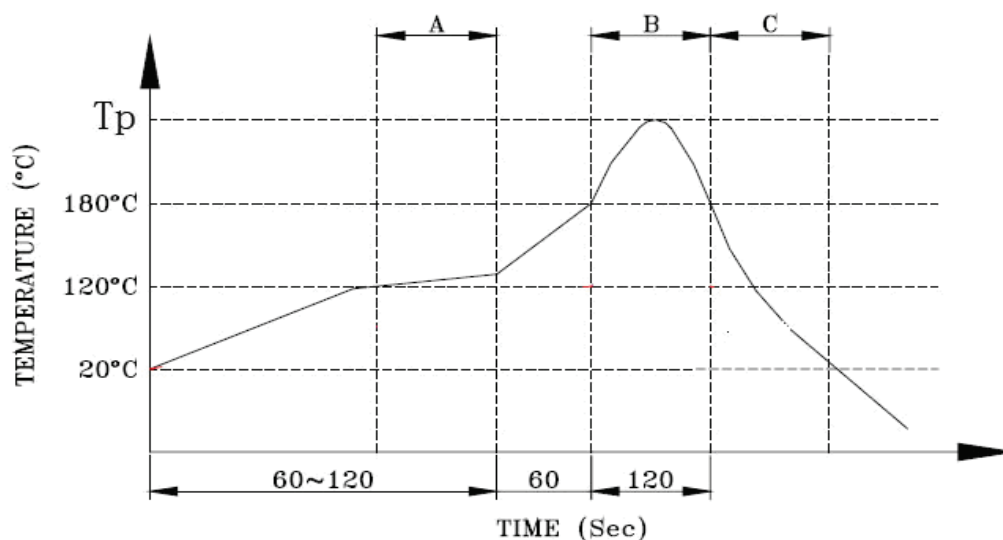
Packaging material: PET

Outer carton unit 400 pcs/ 20 Trays/box



Dimensions: cm

REFLOW PROFILE:



A. Preheating B. Soldering C. Gradual Cooling

Peak temperature(T_p) : $250 \pm 10^\circ\text{C}$
Peak temperature(T_p) time : 5sec max

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