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

ARJ14A



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

RoHS
Compliant

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 and1000 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-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	

2 Faraday, Suite# B | Irvine | CA 92618 **Revised: 01.26.16**
Ph. 949.546.8000 | Fax. 949.546.8001
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RJ45 10/100/1000 Base-TX Tab down 1x4 Jack with Magnetic Module

ARJ14A

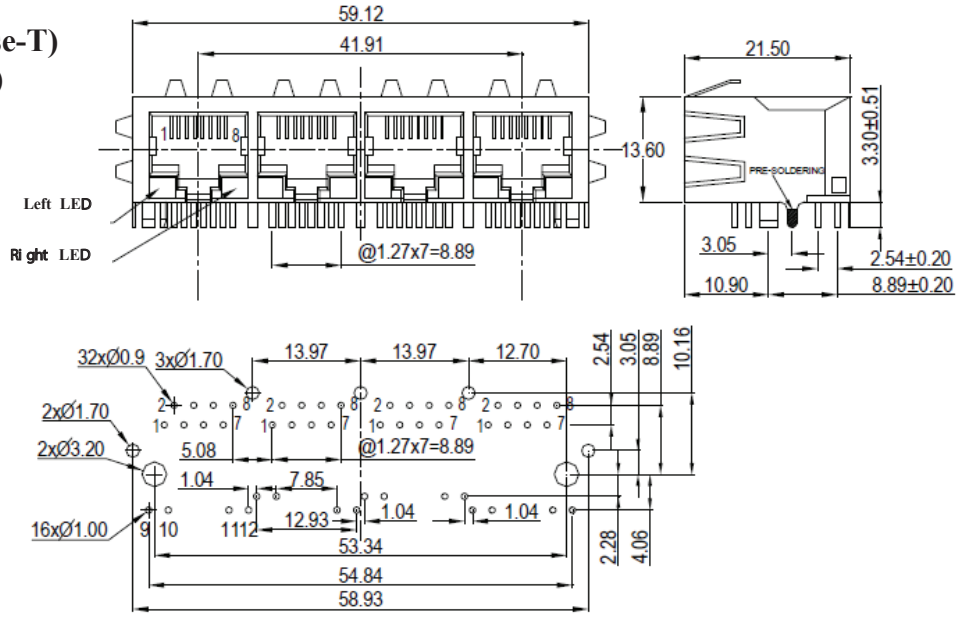
RoHS Compliant



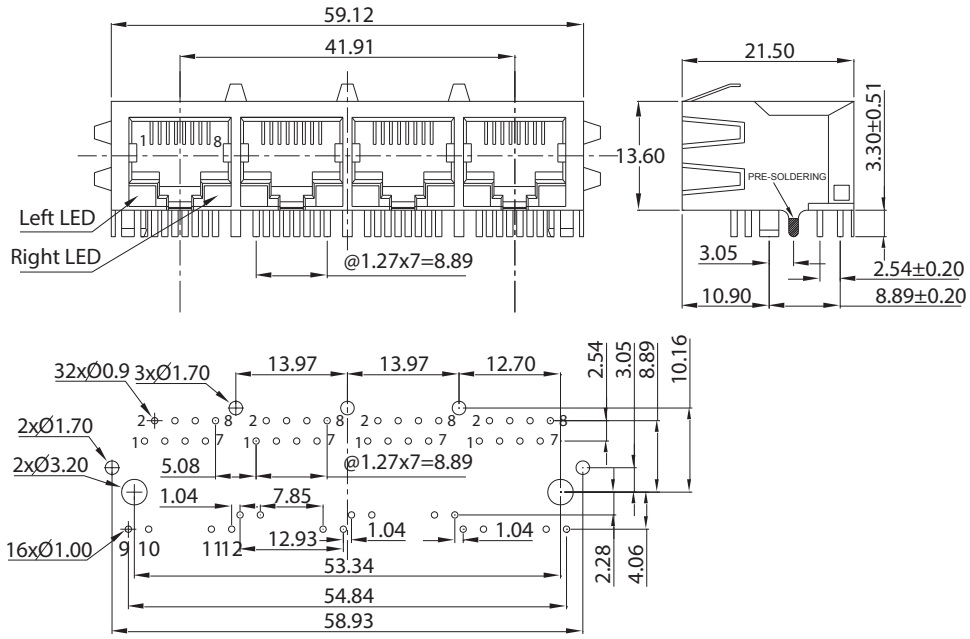
59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

MECHANICAL DIMENSIONS

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



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



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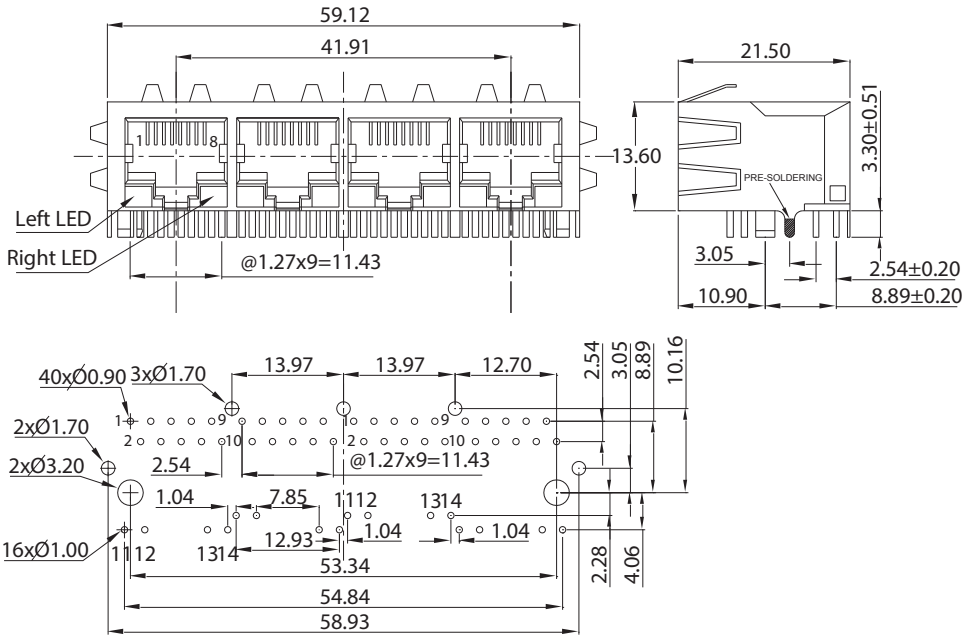
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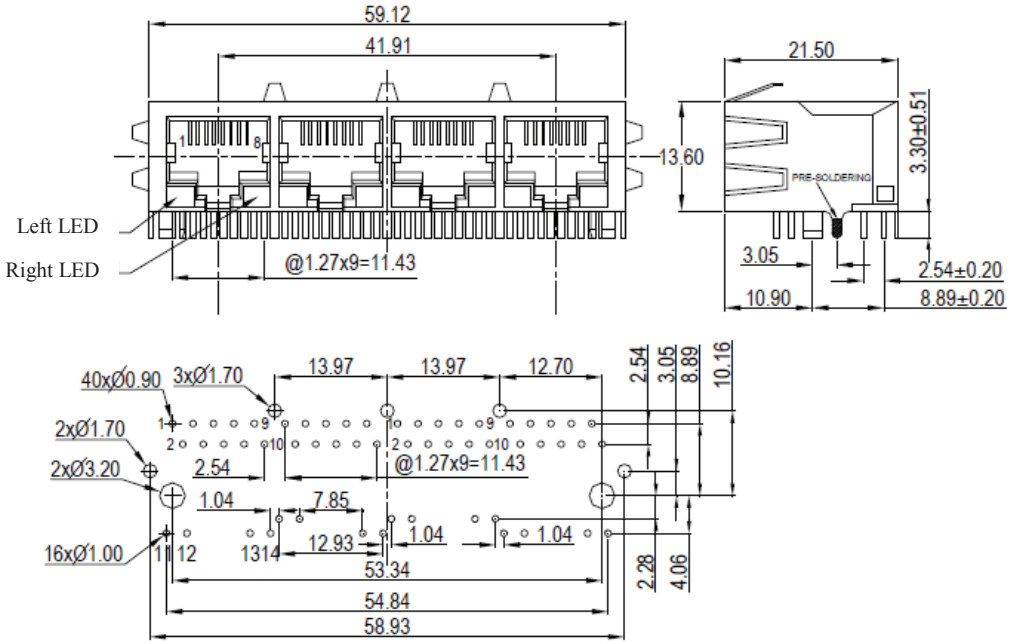
59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

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

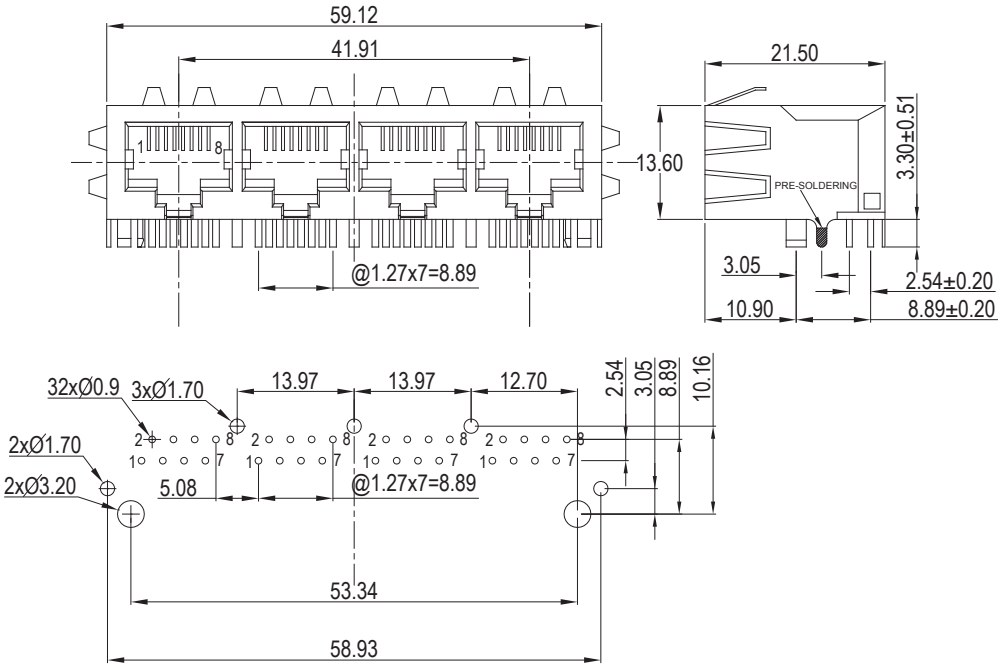
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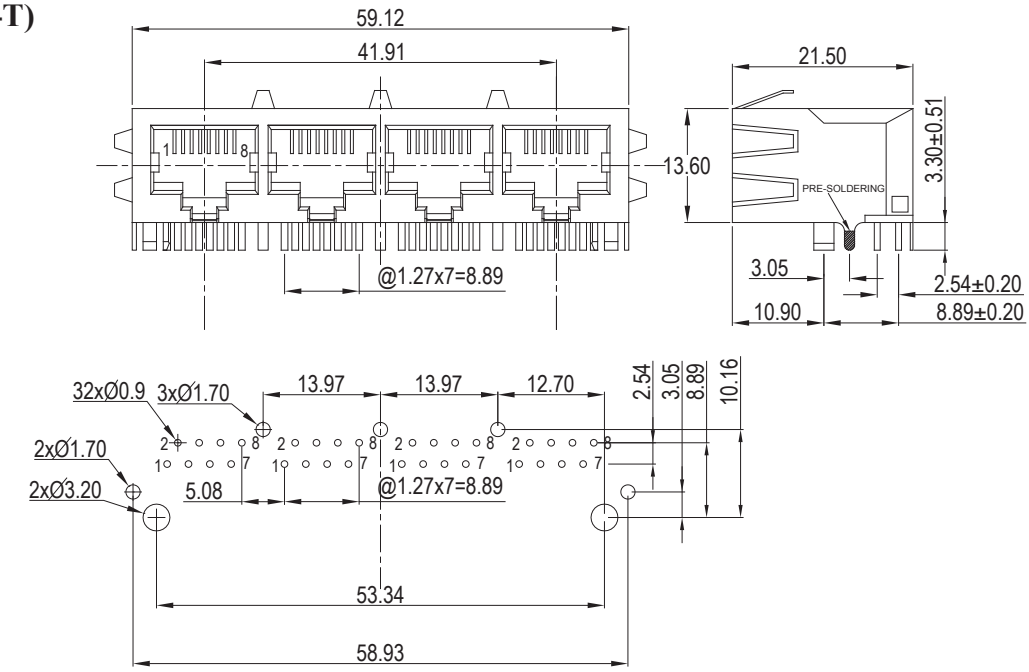
59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

MECHANICAL DIMENSIONS

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



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



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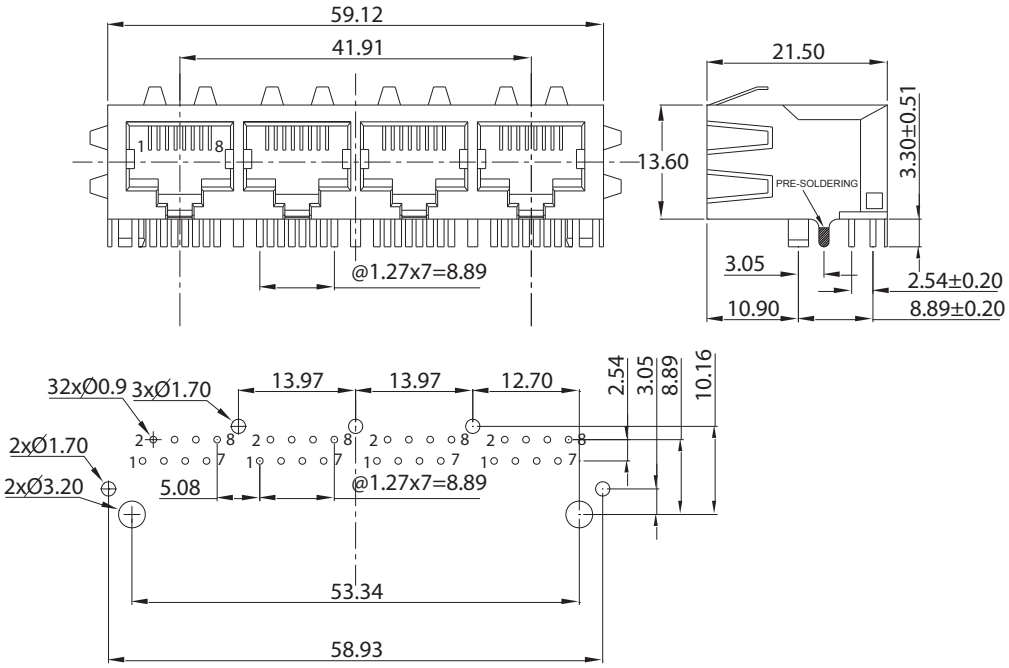
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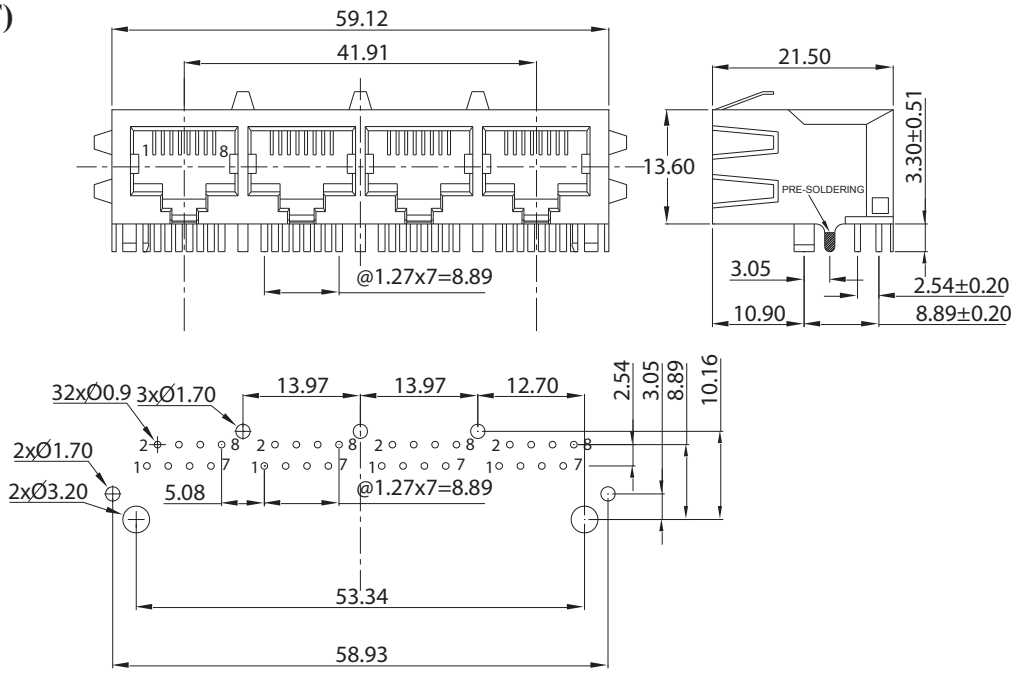
59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

MECHANICAL DIMENSIONS

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



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



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ARJ14A

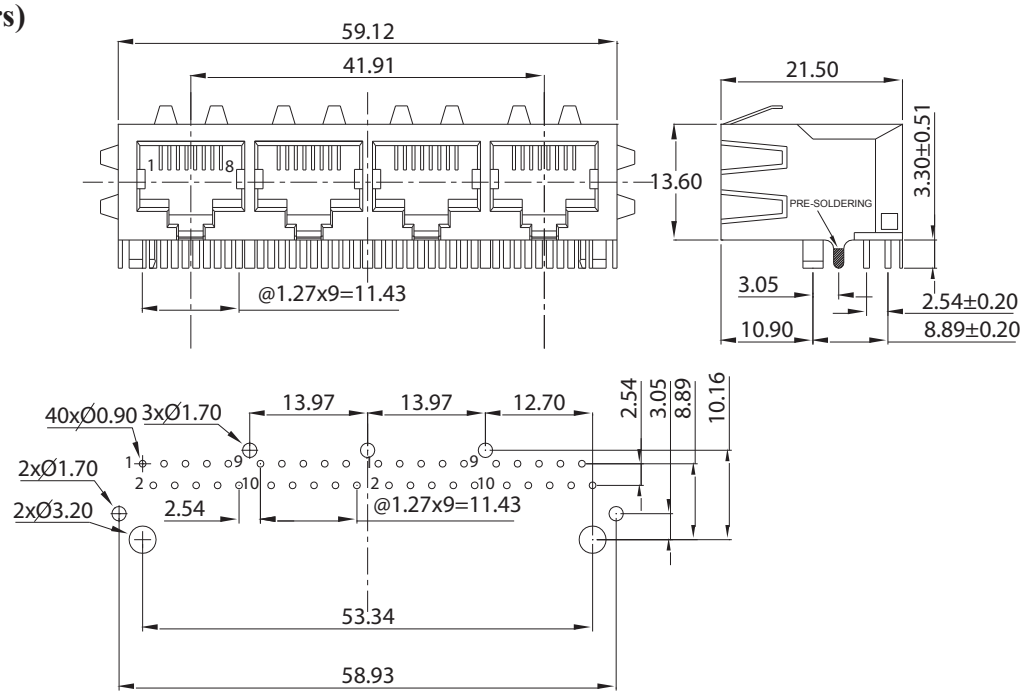
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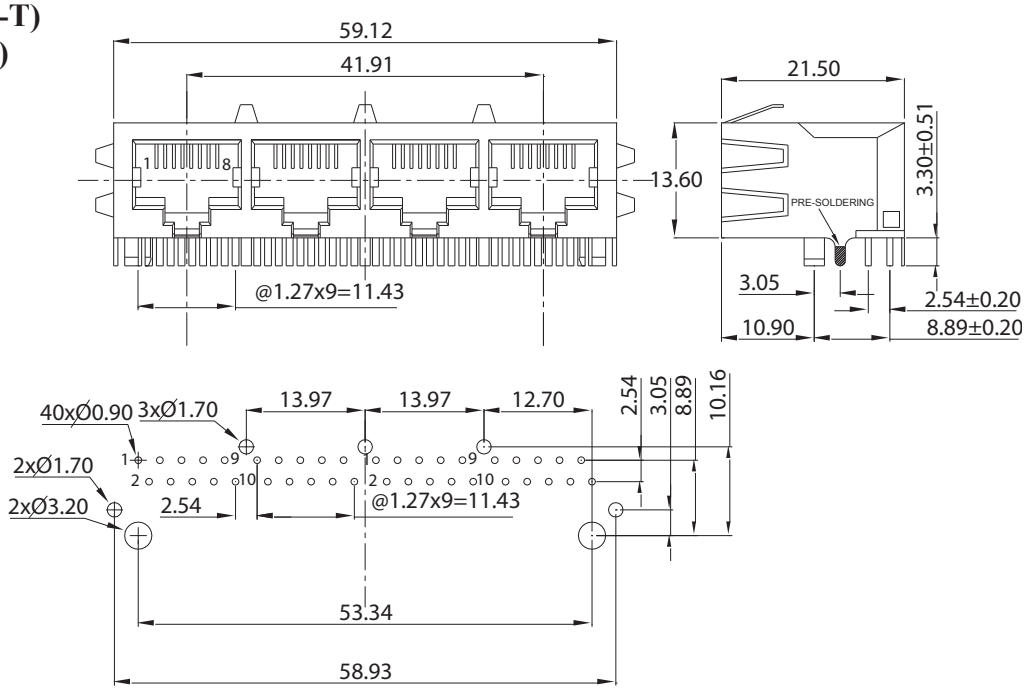
59.12 x 13.60 x 21.50 mm /
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MECHANICAL DIMENSIONS

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

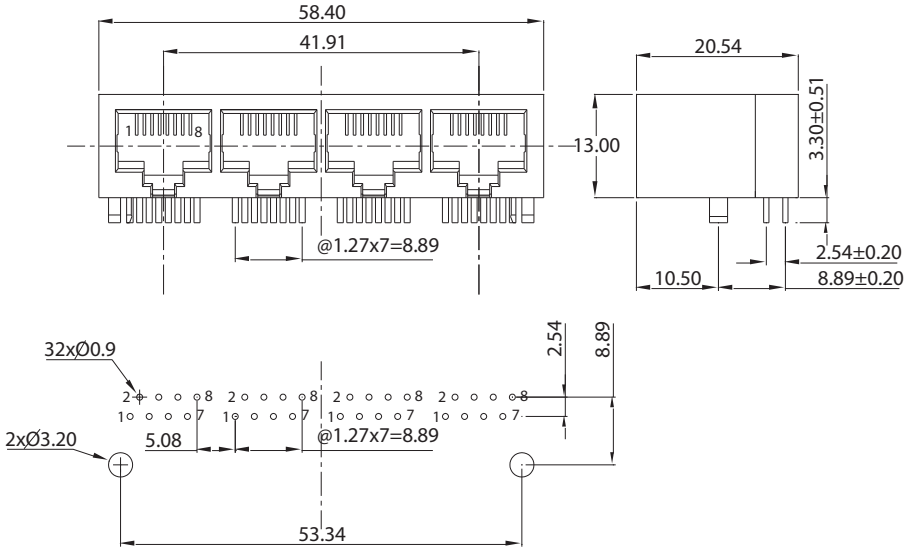
RoHS Compliant



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MECHANICAL DIMENSIONS

MI (10/100 Base-T)



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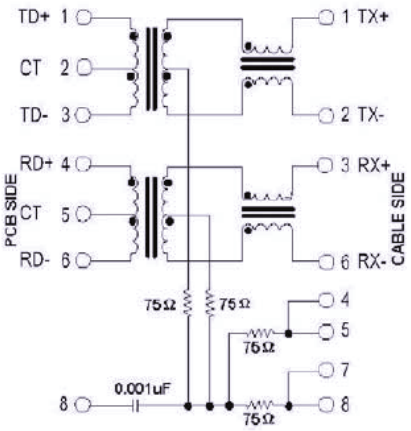
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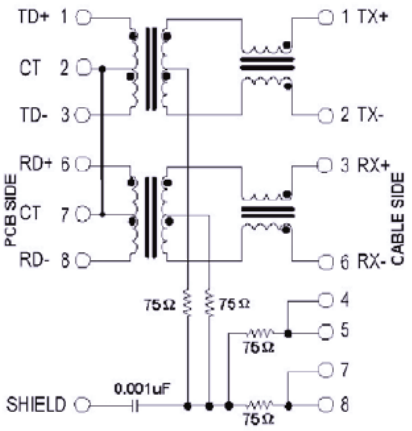
59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

SCHEMATICS

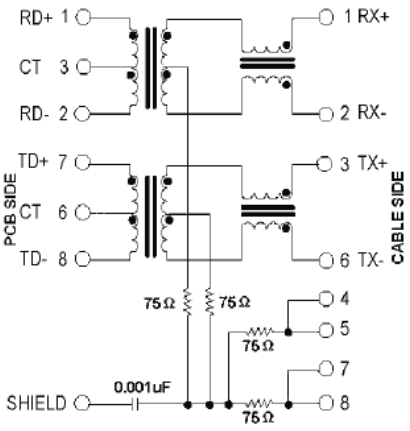
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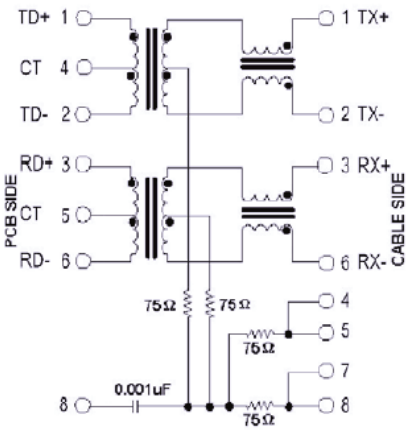
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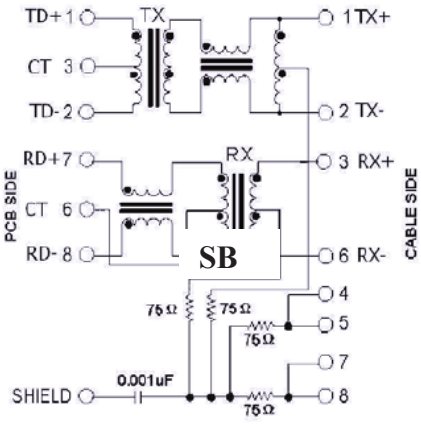
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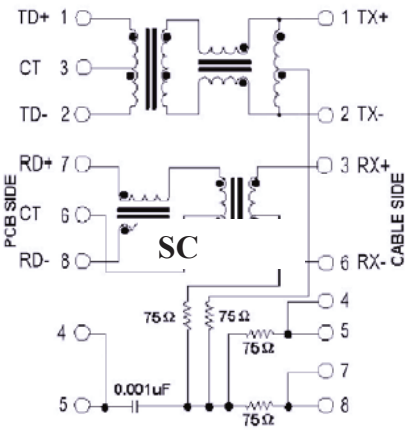
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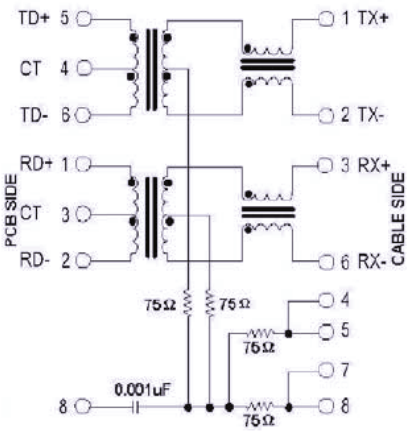
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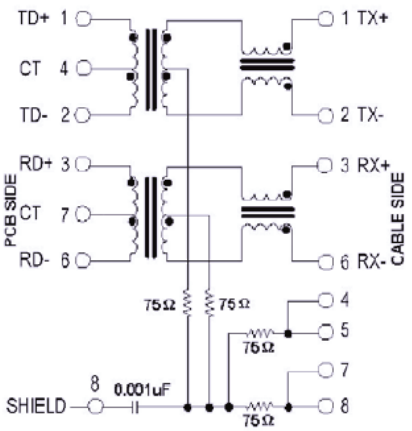
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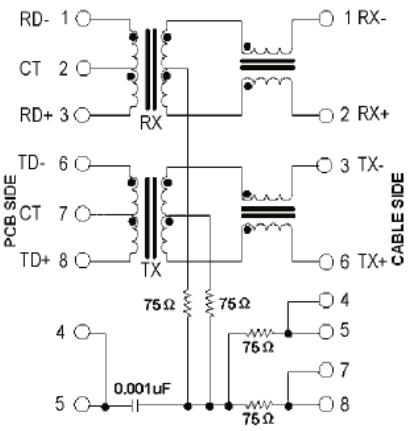
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SH



SI



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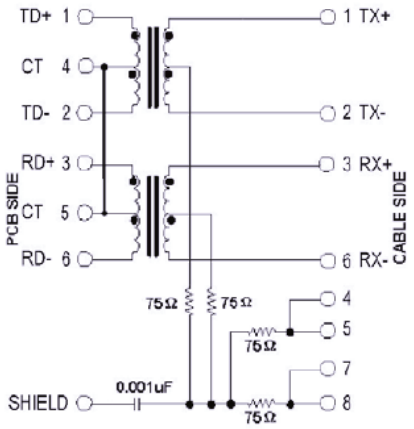
RoHS Compliant



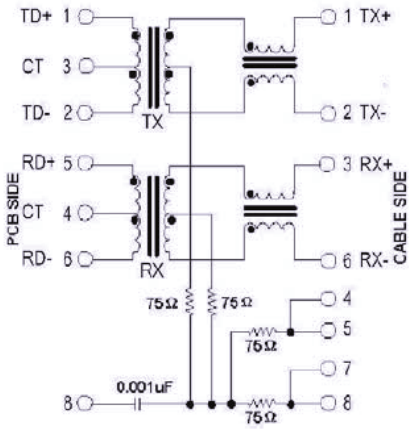
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58.40 x 13.00 x 20.54mm

SCHEMATICS - continued

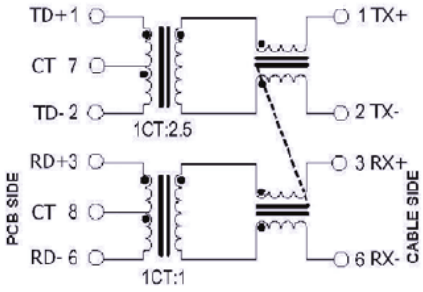
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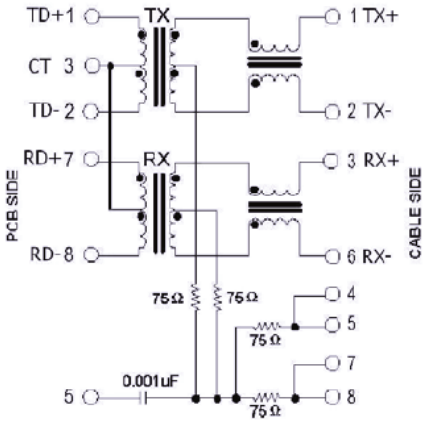
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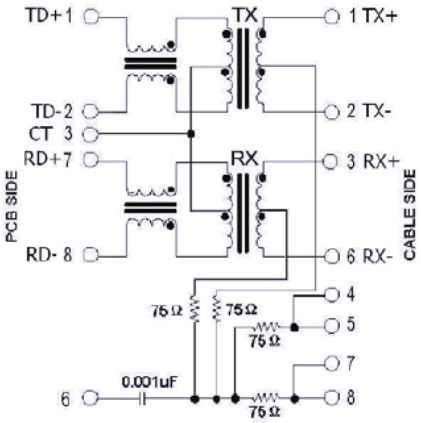
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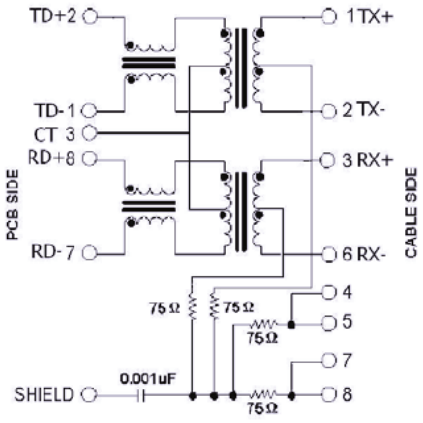
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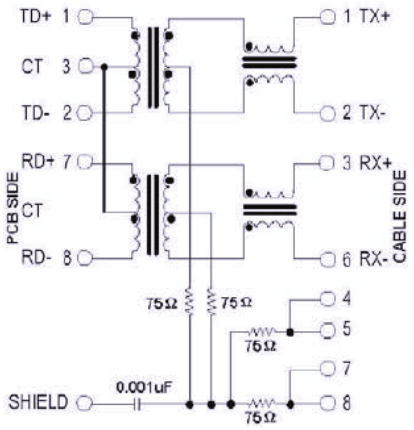
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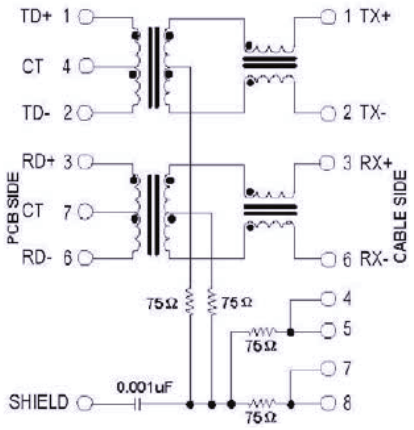
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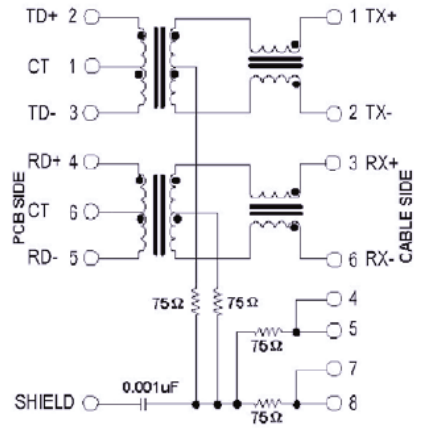
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SO



SR



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

ARJ14A

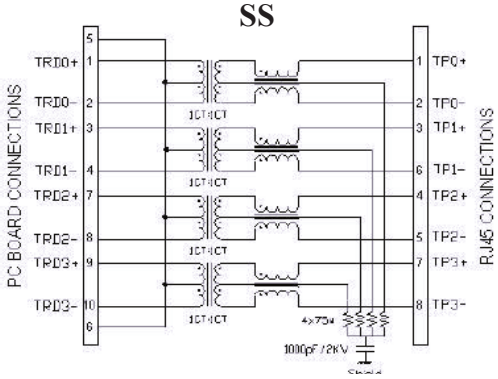
RoHS
Compliant



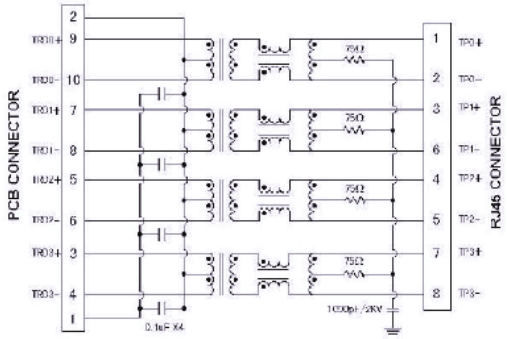
59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

SCHEMATICS

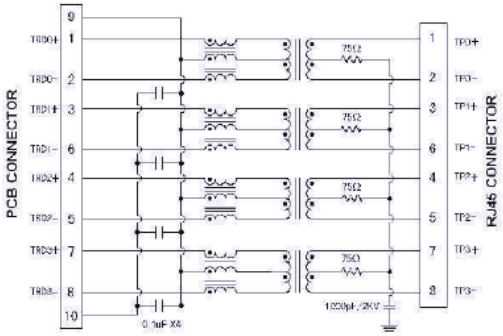
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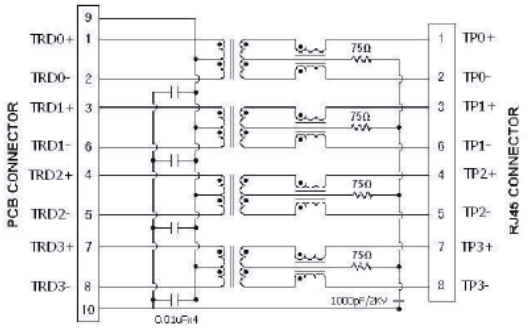
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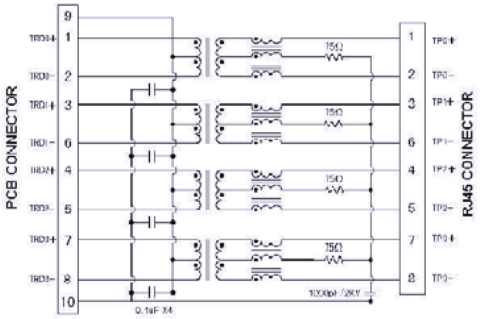
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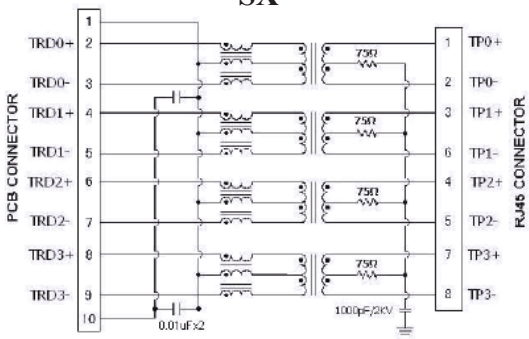
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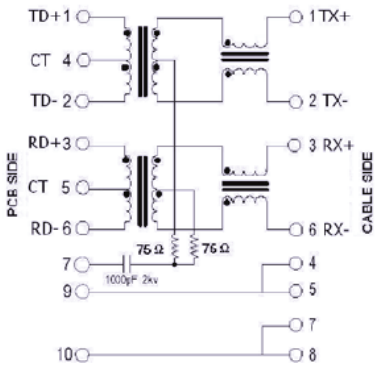
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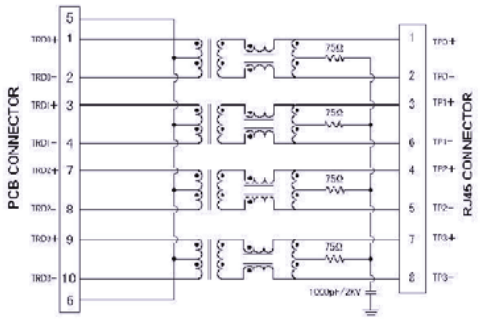
SX



SY



SZ



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

ARJ14A

RoHS Compliant

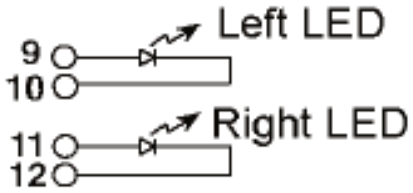


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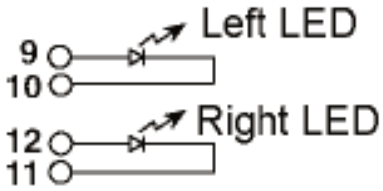
LED POLARITY

8PIN:

E

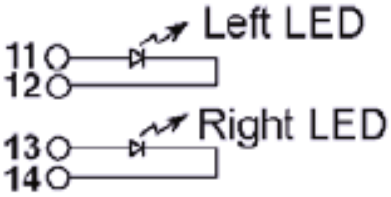


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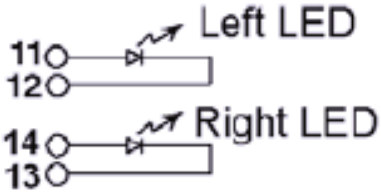


10PIN:

G



H



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

ARJ14A

RoHS Compliant

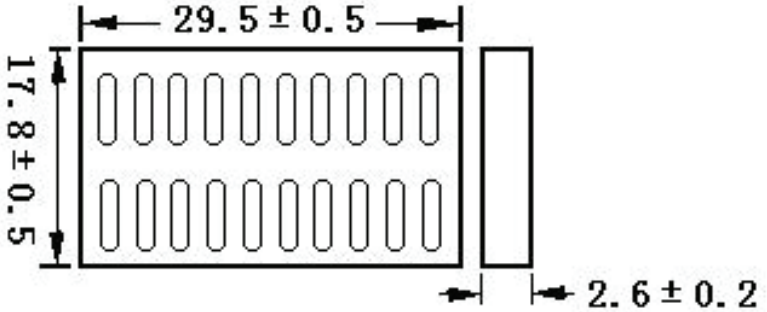


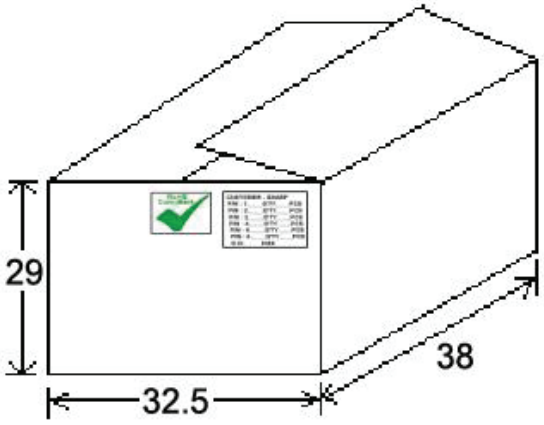
59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

PACKING: 20pcs/tray

Packaging material: PET

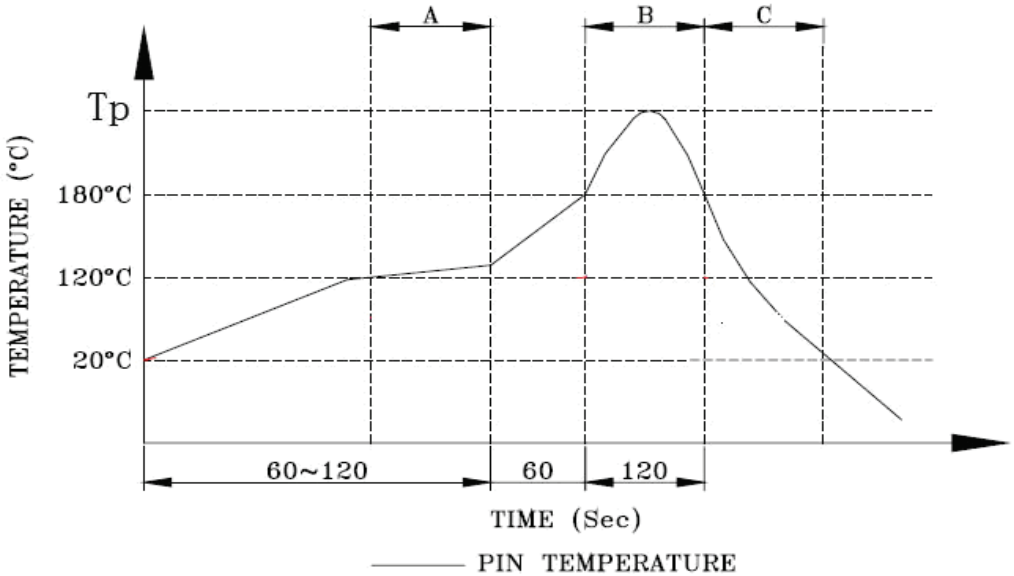
Outer carton unit 400 pcs/ 20 Trays/box





Dimensions: cm

REFLOW PROFILE:



A. Preheating B. Soldering C. Gradual Cooling

Peak temperature(Tp) : 250±10℃
Peak temperature(Tp) time : 5sec max

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.