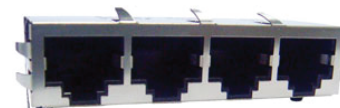


RJ45 10/100/1000 Base-TX Tab down 1x4 Jack with Magnetic Module

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 A: Green B: Yellow C: Amber D: Orange	Blank: No LED A: Green B: Yellow C: Amber D: Orange	Blank: No LED E ~ H (Please see 7.0 LED polarity section)	K: 1CT:1.41 L: 1CT:1 M: 1CT:1CT N: 1.414:1CT O: 1CT:1.41CT P: 1:2CT Q: 1:1.414CT R: 1CT:2.5	S: 1CT:1.41 T: 1CT:1 U: 1CT:1CT V: 1.414:1CT W: 1CT:1.41CT X: 1:2CT Y: 1:1.414CT Z: 1CT:2.5	1: 3u “ 2: 6u “ 3: 15u “ 4: 30u “ 5: 50u “

**RoHS
Compliant**

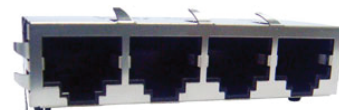
MECHANICAL DIMENSIONS

[illegible]

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

ARJ14A

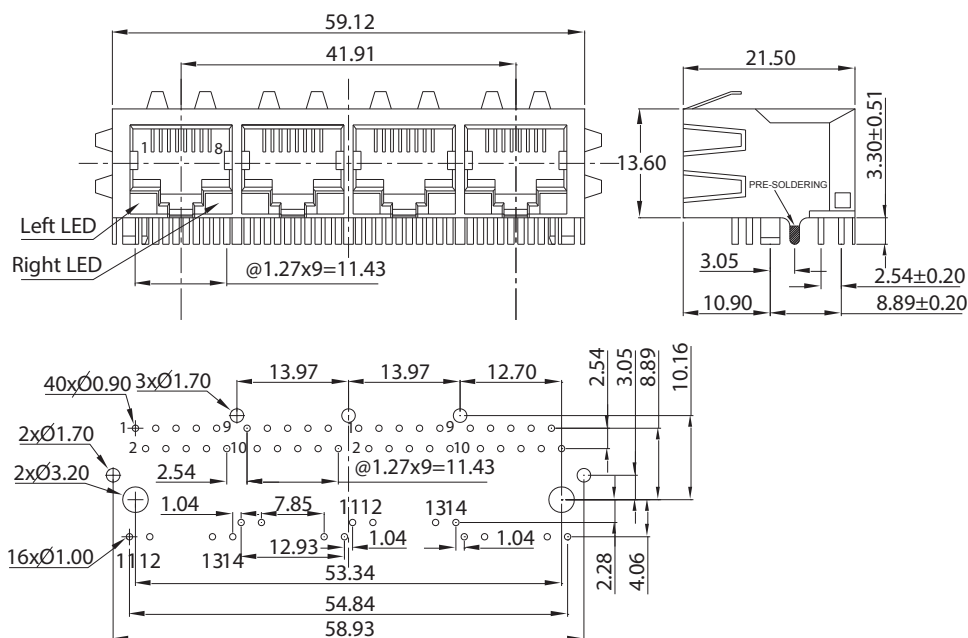
RoHS
Compliant



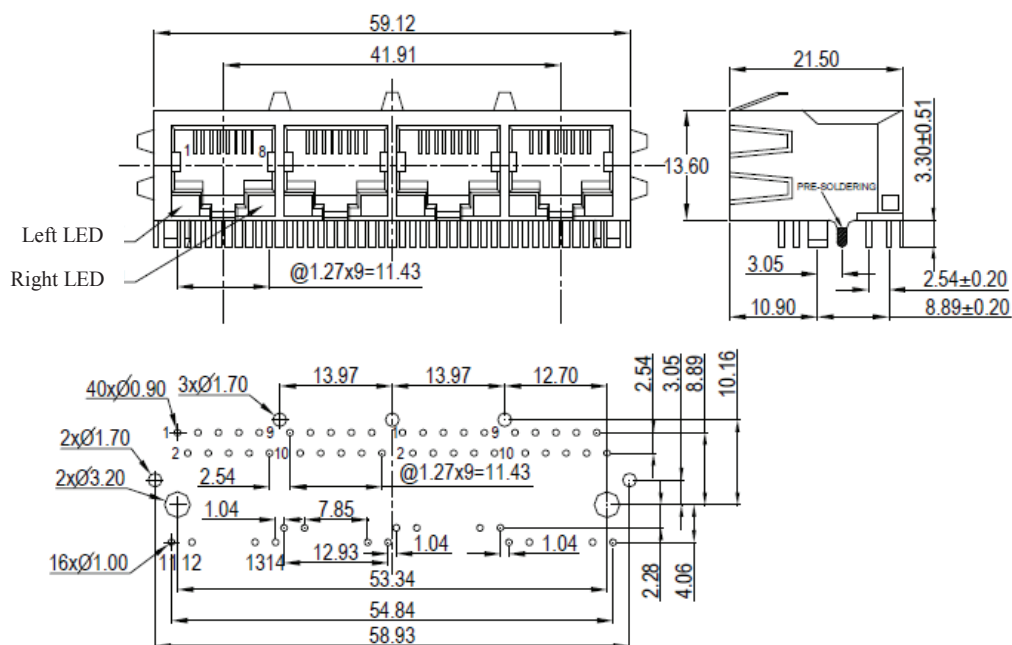
59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

MECHANICAL DIMENSIONS

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

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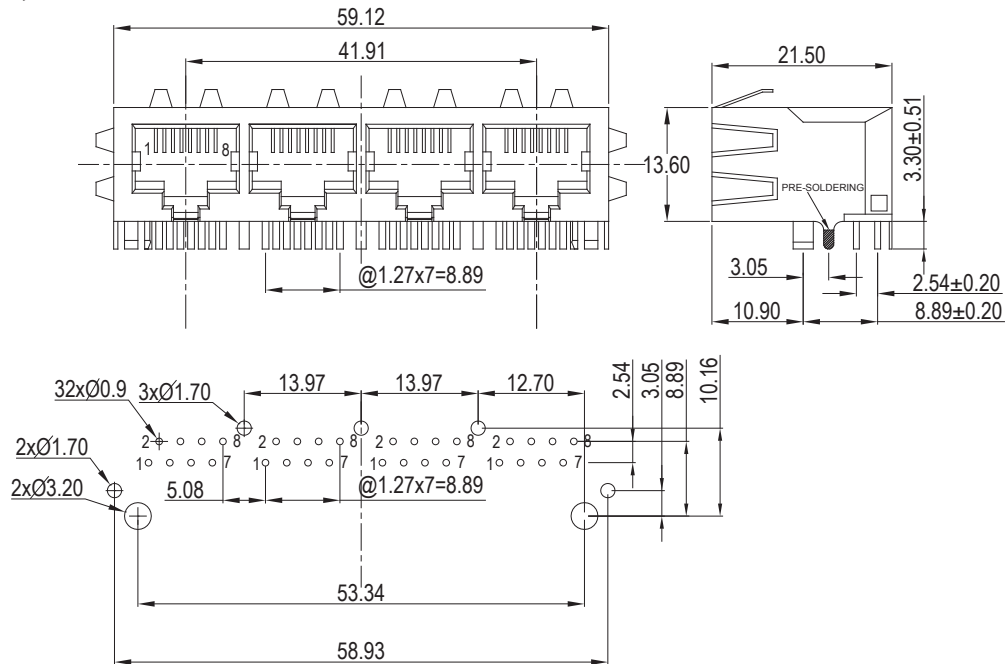
RoHS
Compliant



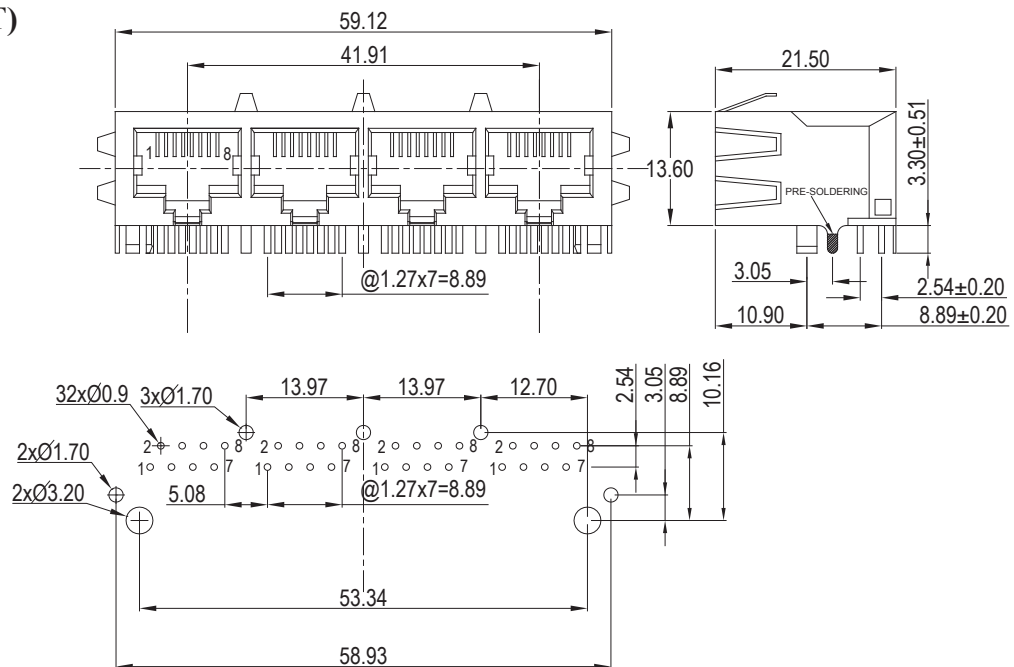
59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

MECHANICAL DIMENSIONS

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



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



**RoHS
Compliant**

MECHANICAL DIMENSIONS

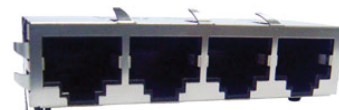
The technical drawings provide the following dimensions:

- Top View:**
 - Overall width: 59.12
 - Distance between component centers: 41.91
 - Pin pitch: $@1.27 \times 7 = 8.89$
 - Pin 1 indicator: 1
 - Pin 8 indicator: 8
- Side View:**
 - Overall height: 13.60
 - Component width: 21.50
 - Mounting height: 3.30 ± 0.51
 - Pre-soldering area: PRE-SOLDERING
 - Distance from component edge to pin: 3.05
 - Distance from component edge to pin: 10.90
 - Pin diameter: 2.54 ± 0.20
 - Pin pitch: 8.89 ± 0.20
- Bottom View:**
 - Overall width: 58.93
 - Overall length: 53.34
 - Pin pitch: $@1.27 \times 7 = 8.89$
 - Pin 1 indicator: 1
 - Pin 8 indicator: 8
 - Pin 10 indicator: 10
 - Pin 7 indicator: 7
 - Pin 2 indicator: 2
 - Pin 5 indicator: 5
 - Pin 12 indicator: 12
 - Pin 15 indicator: 15
 - Pin 18 indicator: 18
 - Pin 21 indicator: 21
 - Pin 24 indicator: 24
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 - Pin 639 indicator: 639
 - Pin 642 indicator: 642
 - Pin 645 indicator: 645
 - Pin 648 indicator: 648
 - Pin 651 indicator: 651
 - Pin 654 indicator: 654
 - Pin 657 indicator: 657
 - Pin 660 indicator:

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

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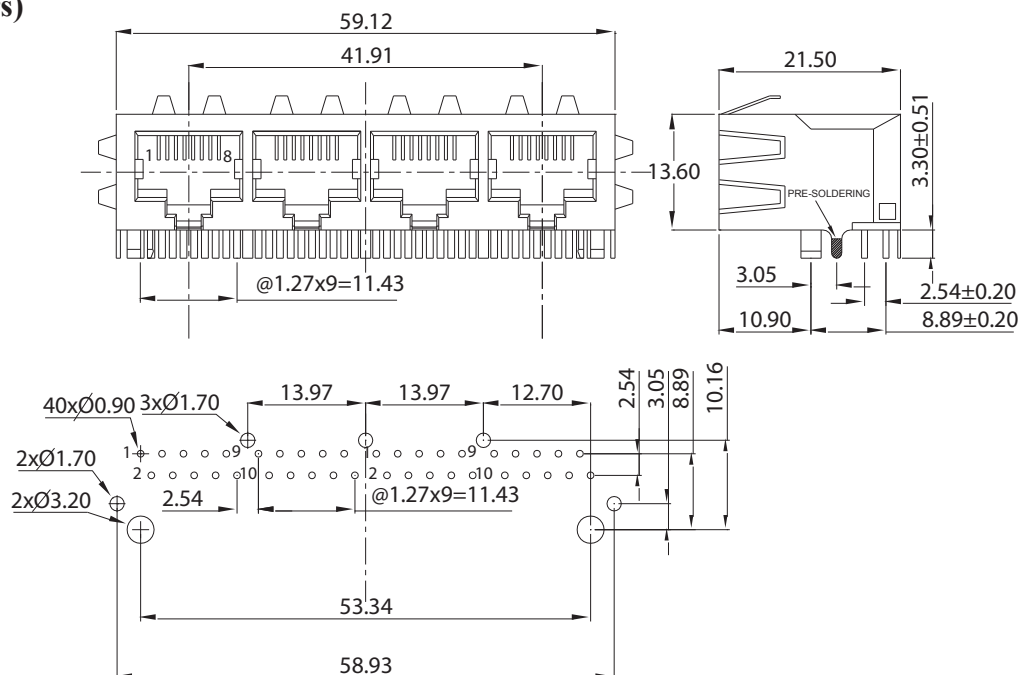
RoHS
Compliant



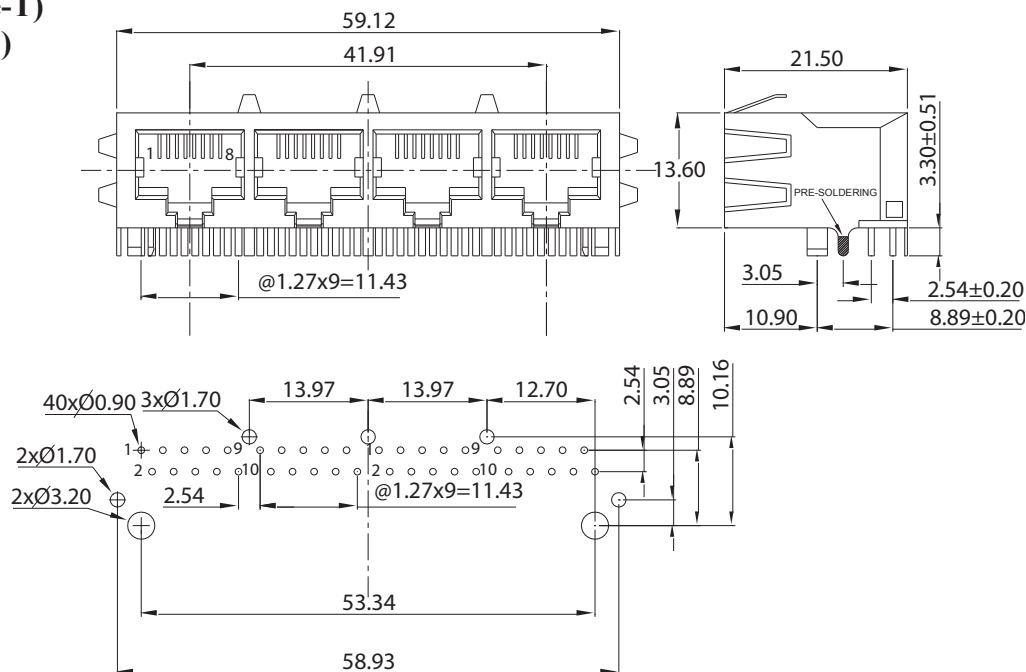
59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

MECHANICAL DIMENSIONS

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



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



RoHS
Compliant

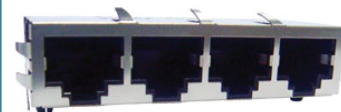
MECHANICAL DIMENSIONS

Technical drawing of a 4x8 pin connector. The top view shows a rectangular connector with a total width of 58.40 and a central width of 41.91. The side view shows a height of 13.00 and a base width of 20.54. The pin pitch is 1.27x7=8.89. The pinout diagram shows a 4x8 pin configuration with dimensions 53.34, 5.08, 2.54, and 8.89. The pinout is labeled as 2xØ3.20 and 32xØ0.9.

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

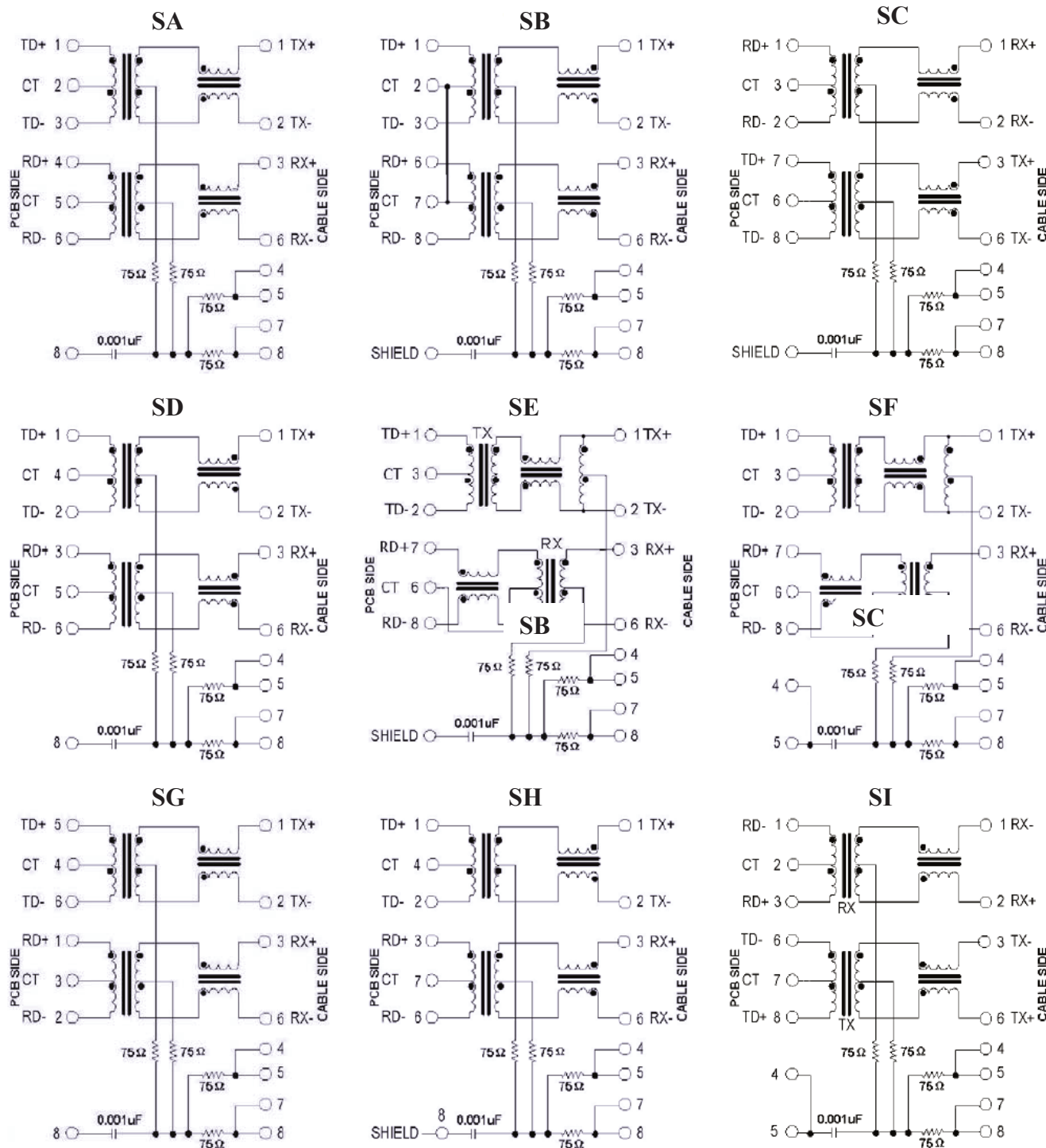
ARJ14A

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

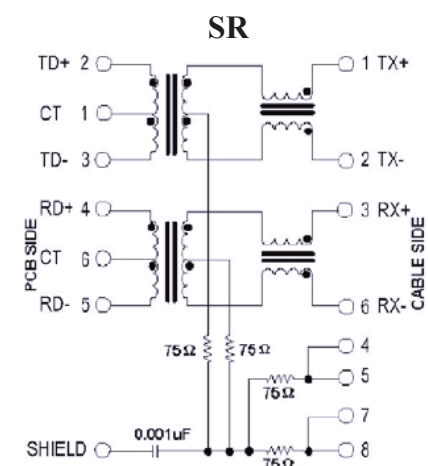
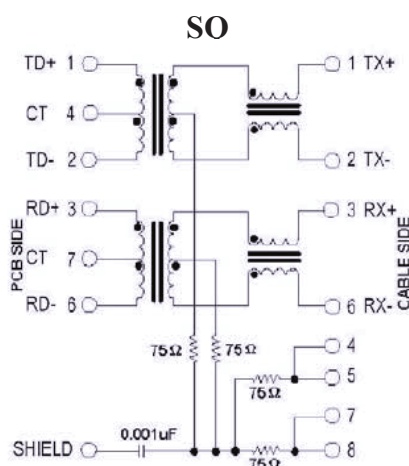
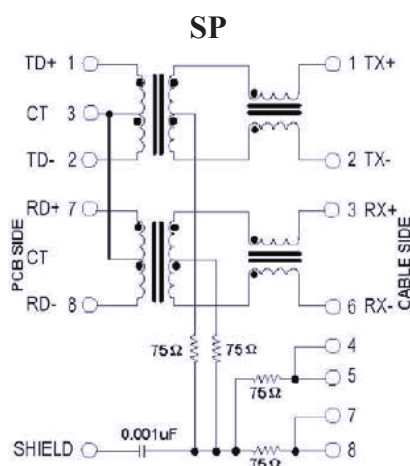
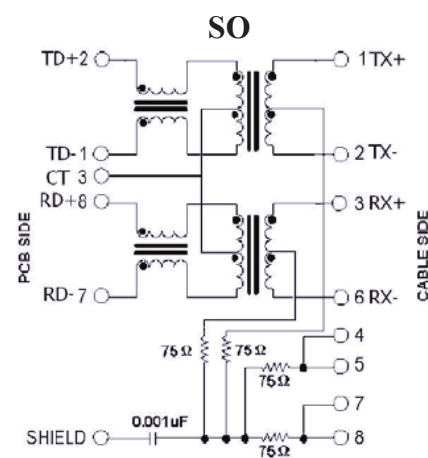
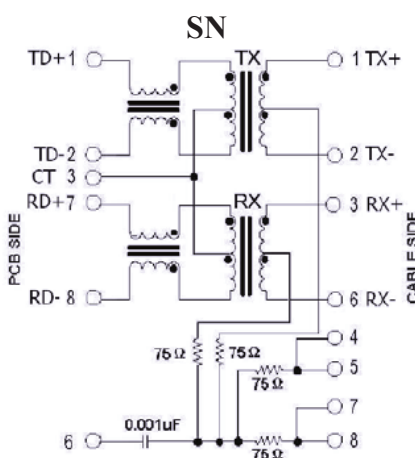
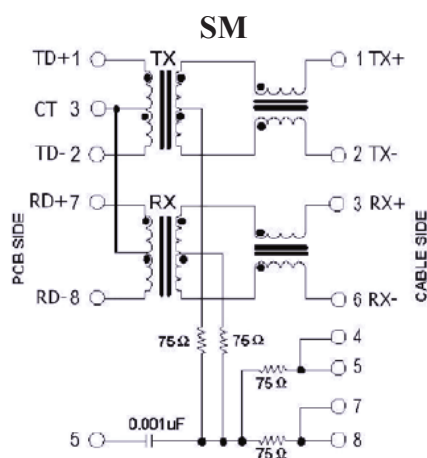
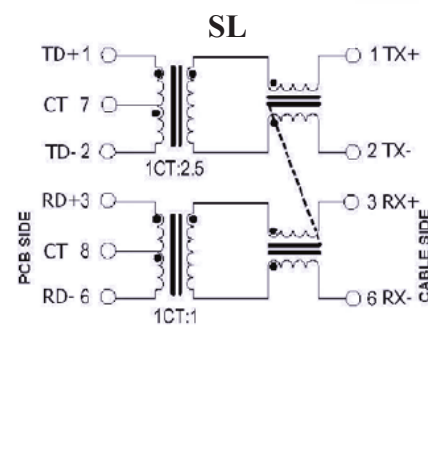
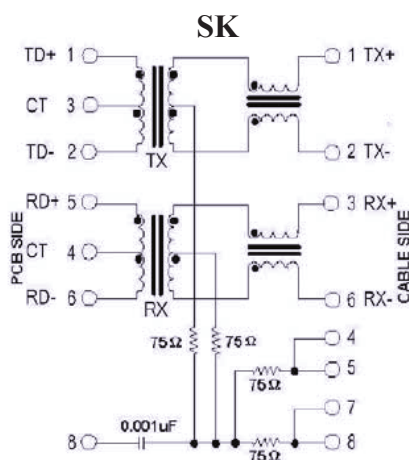
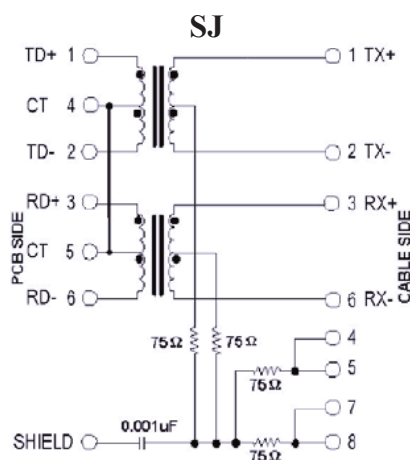
ARJ14A

RoHS
Compliant



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

SCHEMATICS - continued



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

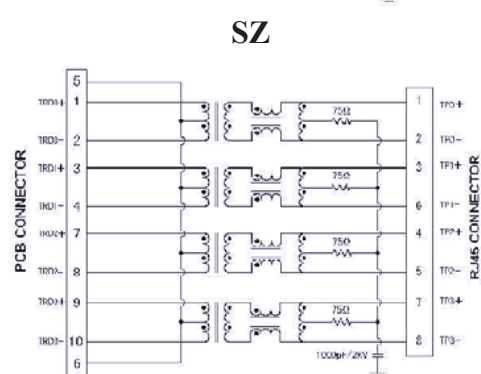
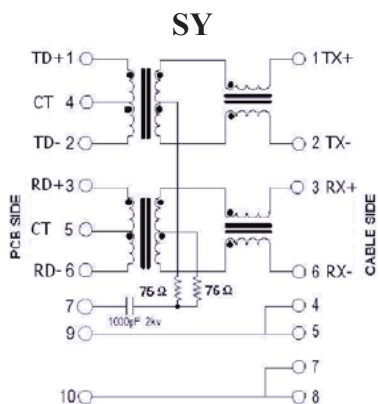
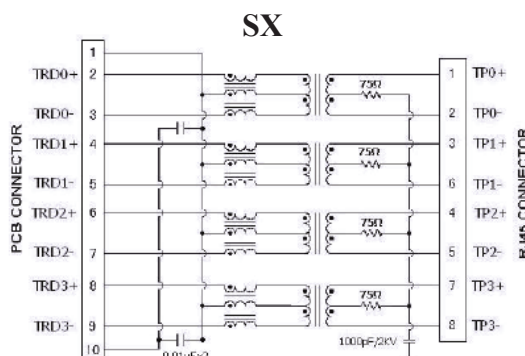
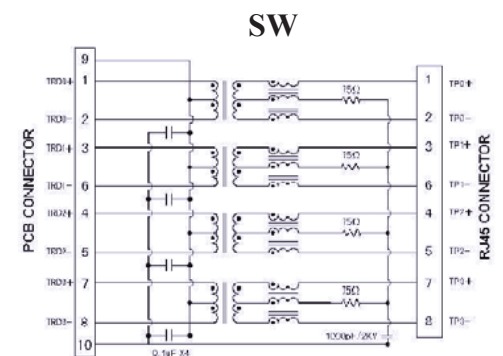
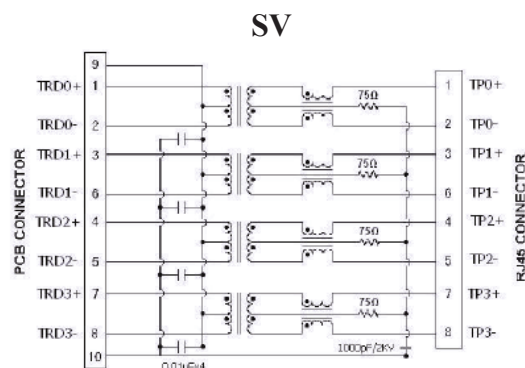
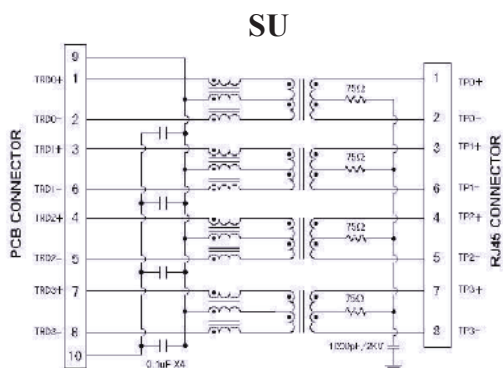
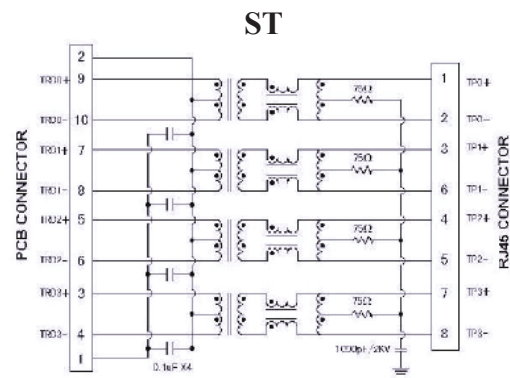
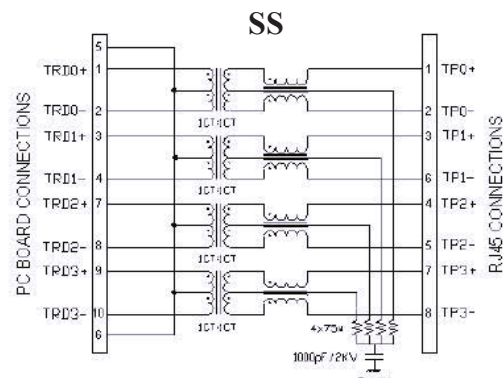
ARJ14A

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58.40 x 13.00 x 20.54mm

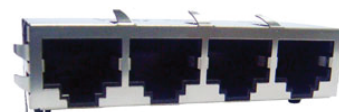
SCHEMATICS



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

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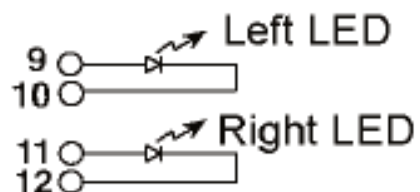


59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

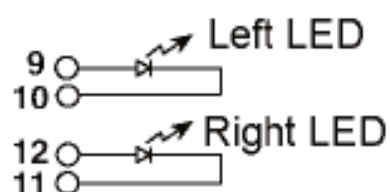
LED POLARITY

8PIN:

E

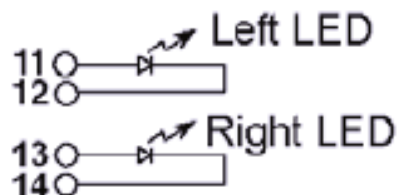


F

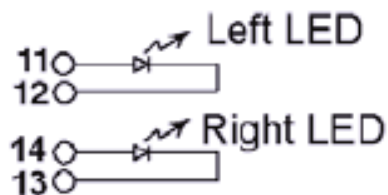


10PIN:

G



H



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

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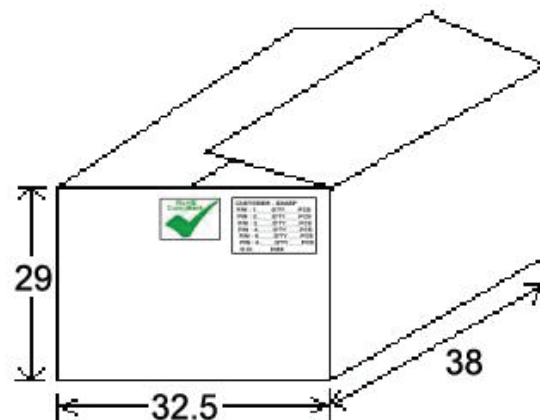
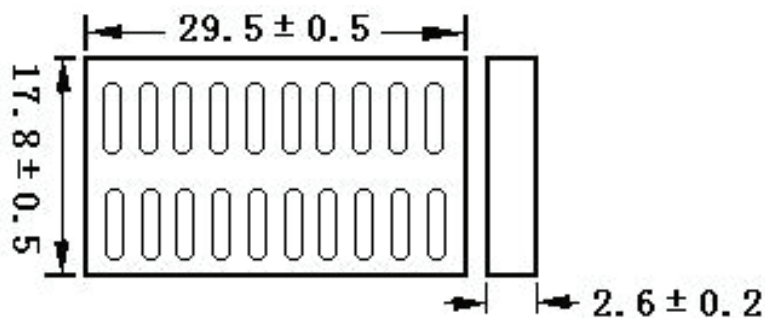


59.12 x 13.60 x 21.50 mm /
58.40 x 13.00 x 20.54mm

PACKING: 20pcs/tray

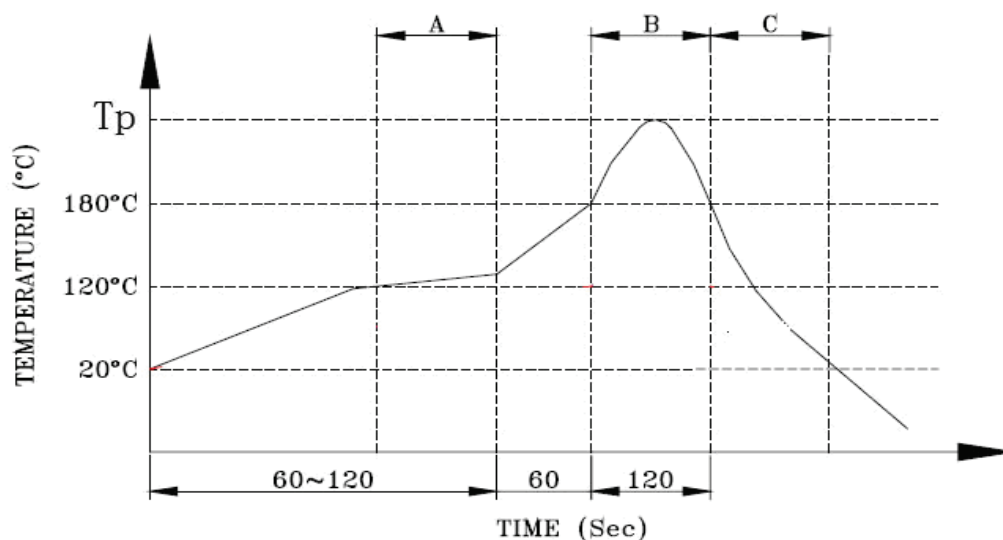
Packaging material: PET

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

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.

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CERTIFIED



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[ARJ14A-MESA-MU2](#) [ARJ14A-MESB-MU2](#) [ARJ14A-MESC-MU2](#) [ARJ14A-MESD-MU2](#) [ARJ14A-MFSA-MU2](#) [ARJ14A-](#)
[MFSB-MU2](#) [ARJ14A-MFSC-MU2](#) [ARJ14A-MFSD-MU2](#) [ARJ14A-MISA-MU2](#) [ARJ14A-MISB-MU2](#) [ARJ14A-MISC-MU2](#)
[ARJ14A-MISD-MU2](#)