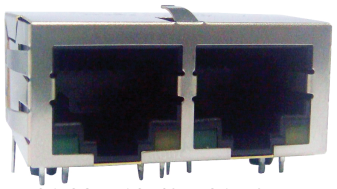
RJ45 10/100/1000 Base-TX Tab down 1x2 Jack with Magnetic Module

ARJ12A

RoHS Compliant



31.28 x 13.60 x 21.50 mm

FEATURES:

- Tab down
- Available with or without LED
- Suitable CAT 5 & 6 cable and UTP
- Comply IEEE 802.3ab
- LAN Magnetic with RJ4
- 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	Turns Ratio ± 5%		Tab	EMI Fingers	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
ARJ12A-MASD-A-B-EMU2	1CT:1CT	1CT:1CT	DOWN	Yes	G/Y	-1.2	-18	-16	-12
ARJ12A-MASD-A-B-FMU2	1CT:1CT	1CT:1CT	DOWN	Yes	G/Y	-1.2	-18	-16	-12
ARJ12A-MCSD-MU2	1CT:1CT	1CT:1CT	DOWN	Yes	-	-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	
ARJ12A-MASD-A-B-EMU2	-40	-35	-30	-30	-20	1500
ARJ12A-MASD-A-B-FMU2	-40	-35	-30	-30	-20	1500
ARJ12A-MCSD-MU2	-40	-35	-30	-30	-20	1500

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

OPTIONS AND PART IDENTIFICATION

ARJ12A - □□ - □ - □ - □□□□

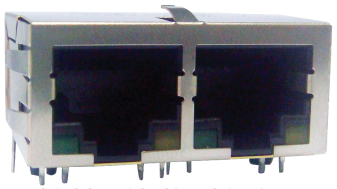
Mechanical	Schematic	Left LED color (e.g. B for Yellow, AB for Green-Yellow)	Right LED color (e.g. B for Yellow, AB for Green-Yellow)	LED polarity	Turns Ratio (Tx)	Turns Ratio (Rx)	Gold plating
MA ~ MD (Please see mechanical section)	SA ~ SZ (Please see schematic section)	Blank: No LED	Blank: No LED	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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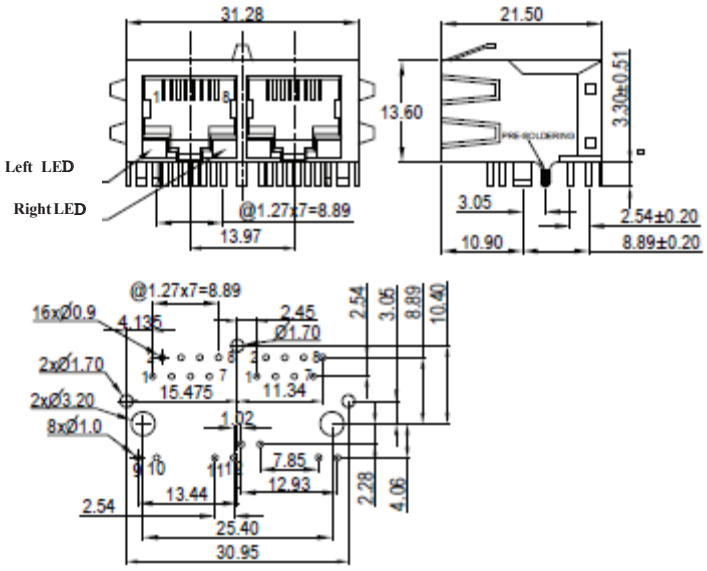
RoHS
Compliant



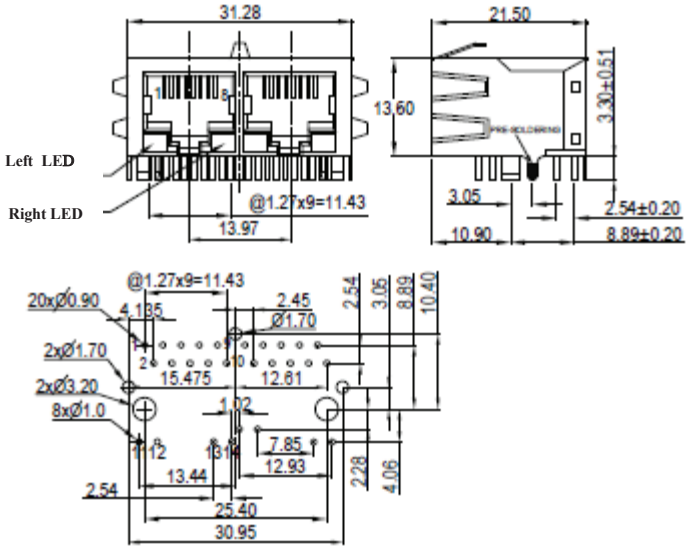
31.28 x 13.60 x 21.50 mm

MECHANICAL DIMENSIONS

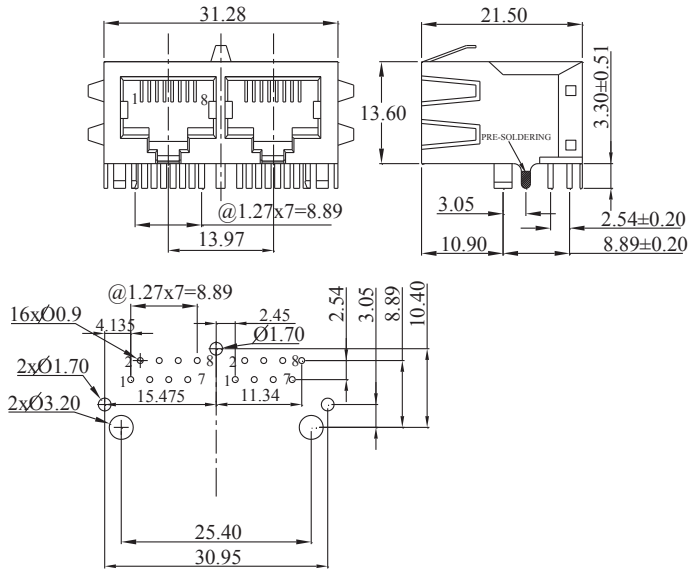
MA (10/100 Base-T)



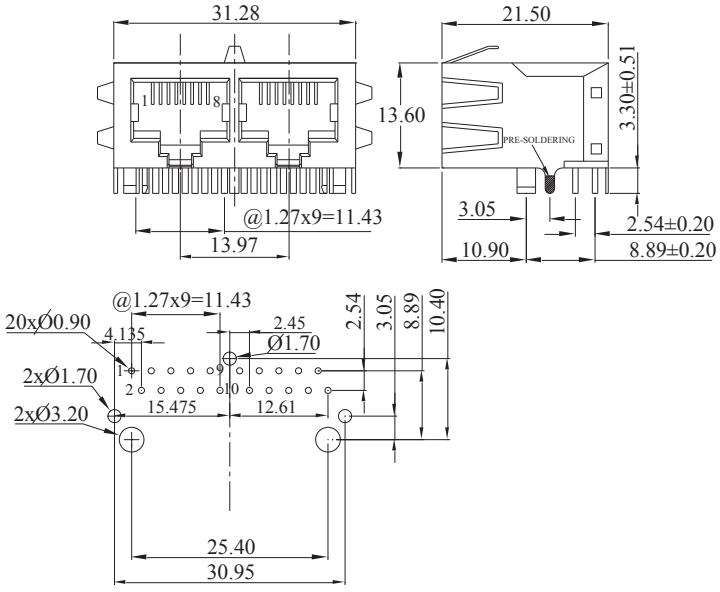
MB (1000 Base-T)



MC (10/100 Base-T)



MD (1000 Base-T)



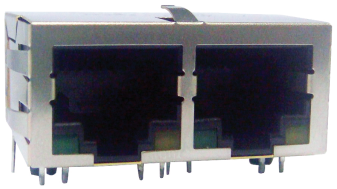
Dimension: mm. All tolerances are ±0.25 unless otherwise specified

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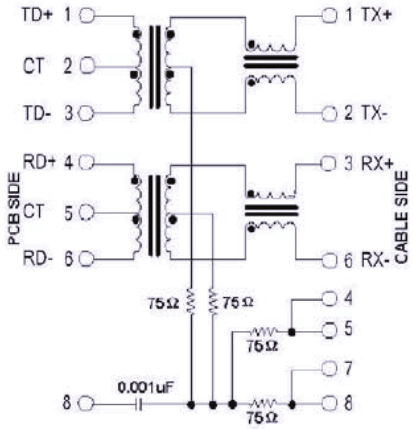
RoHS Compliant



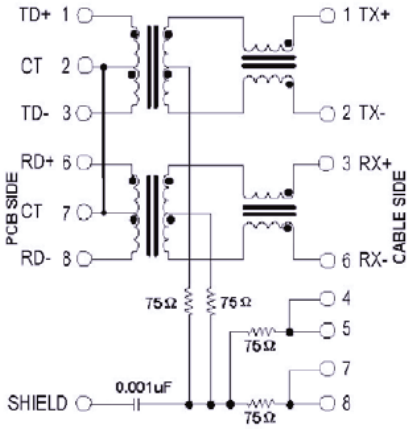
31.28 x 13.60 x 21.50 mm

SCHEMATICS

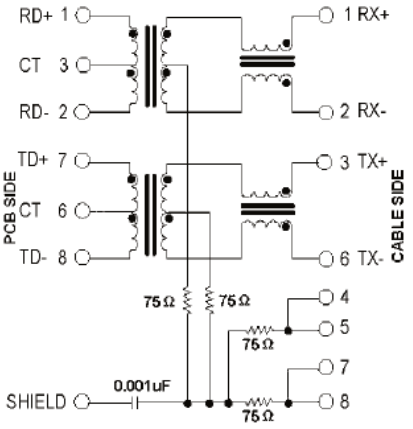
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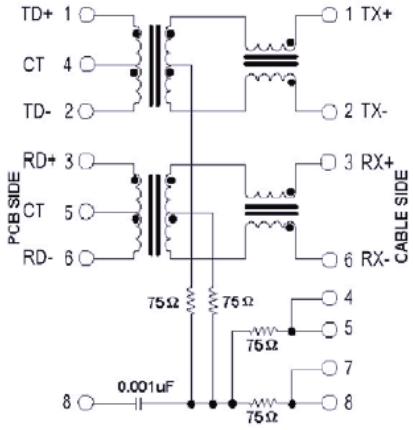
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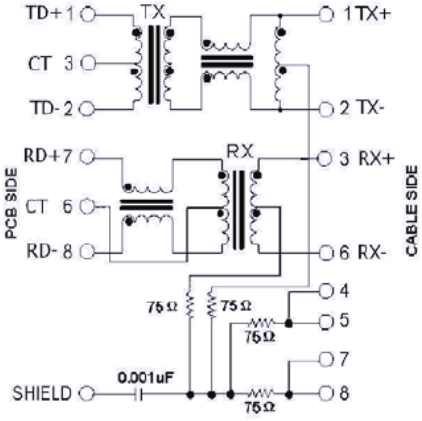
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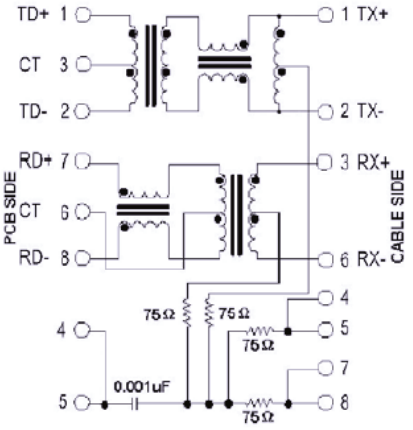
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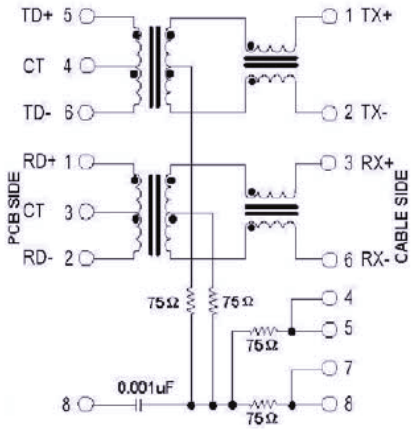
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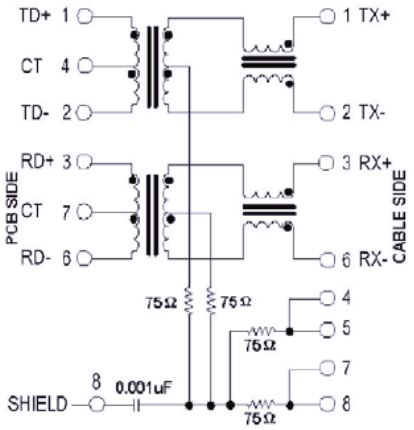
SF



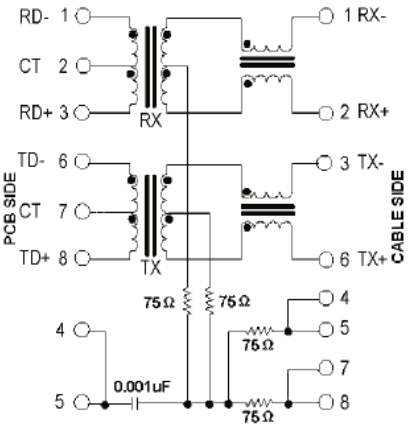
SG



SH



SI

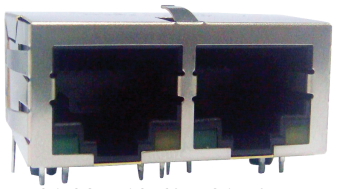


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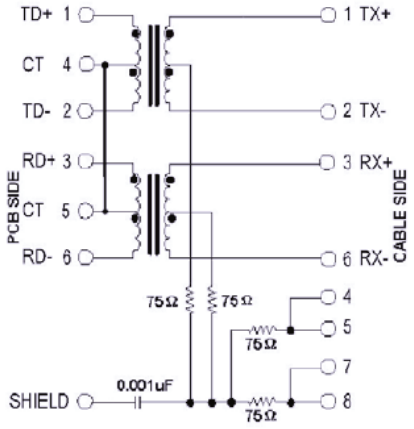
RoHS Compliant



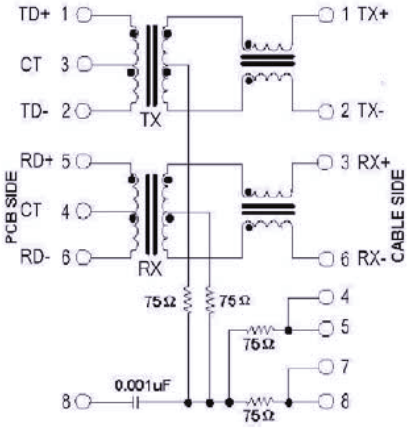
31.28 x 13.60 x 21.50 mm

SCHEMATICS - continued

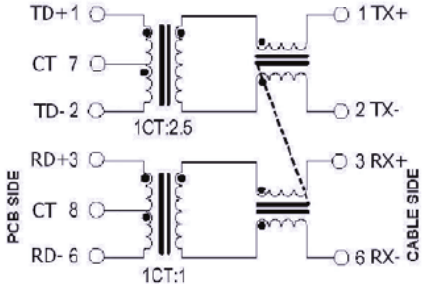
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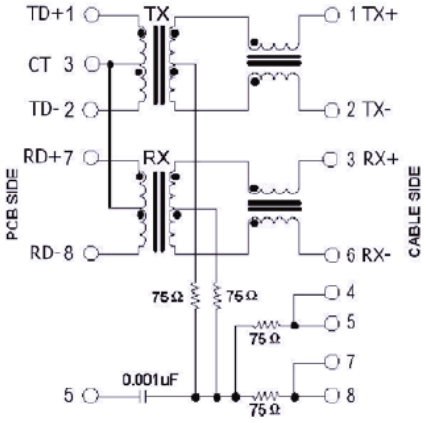
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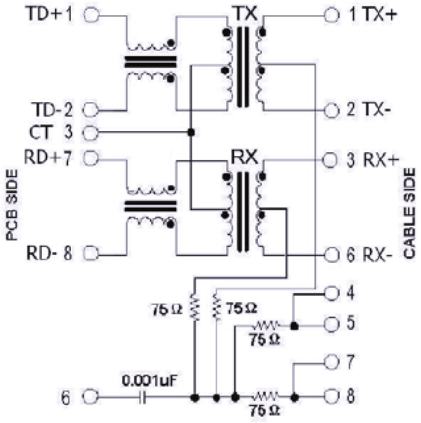
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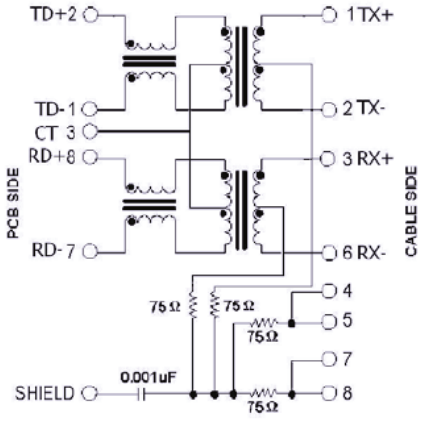
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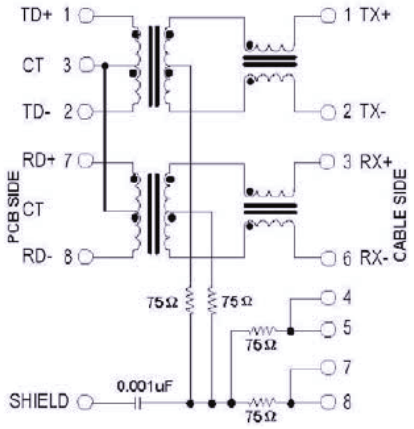
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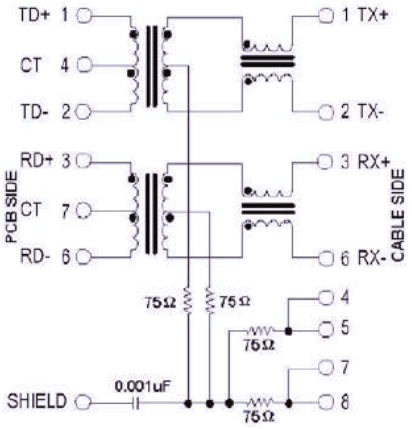
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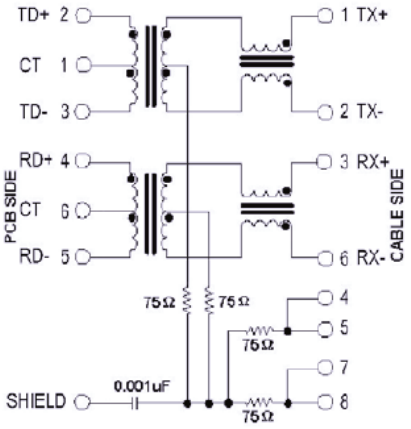
SP



SO



SR

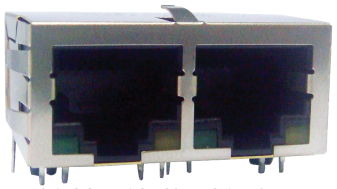


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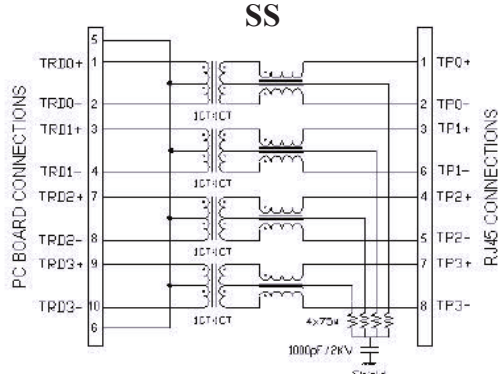
RoHS
Compliant



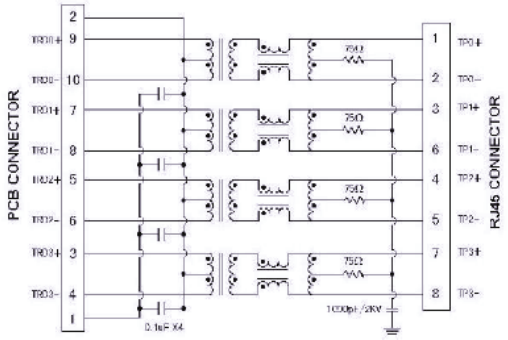
31.28 x 13.60 x 21.50 mm

SCHEMATICS

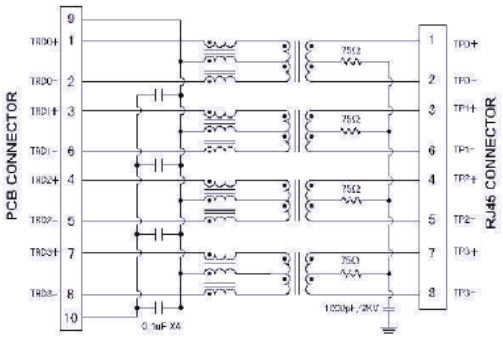
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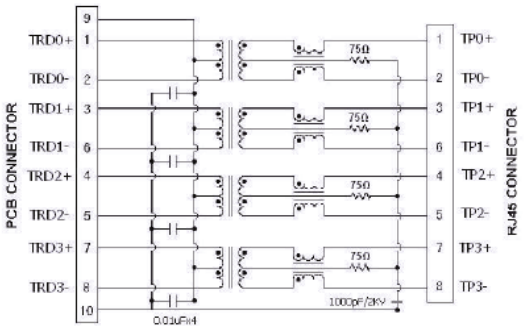
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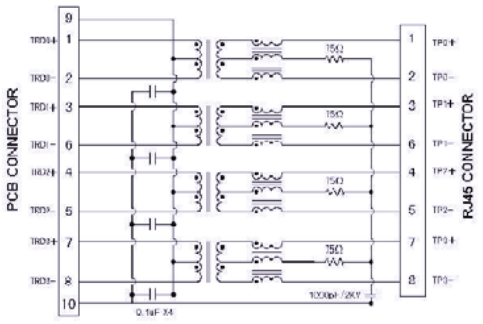
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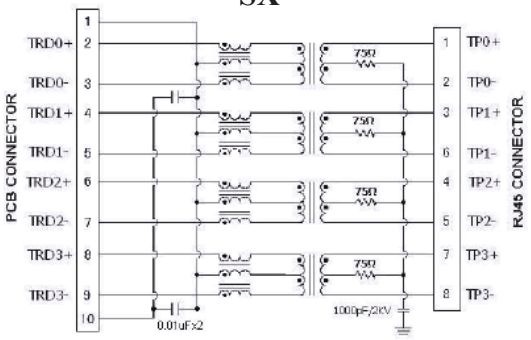
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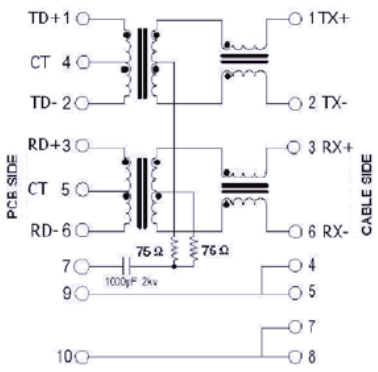
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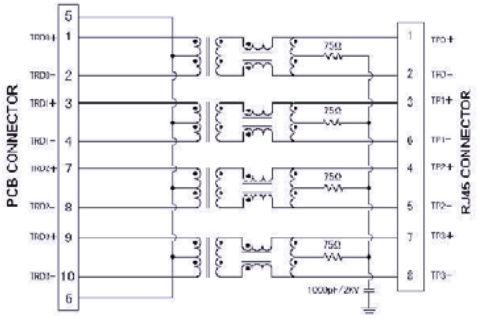
SX



SY



SZ

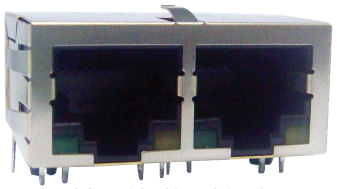


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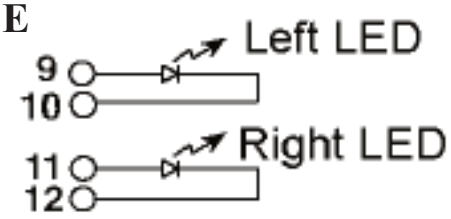


31.28 x 13.60 x 21.50 mm

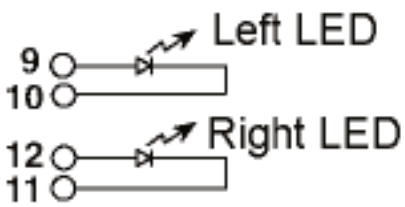
LED POLARITY

8PIN:

E

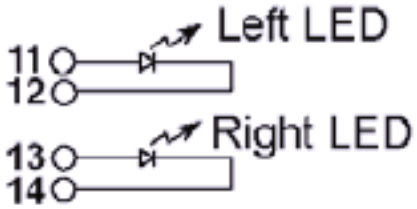


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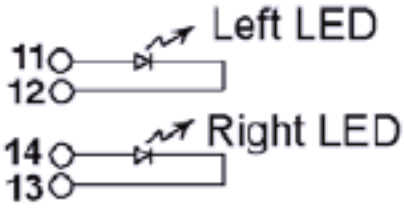


10PIN:

G



H

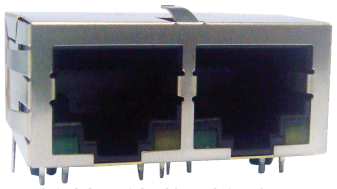


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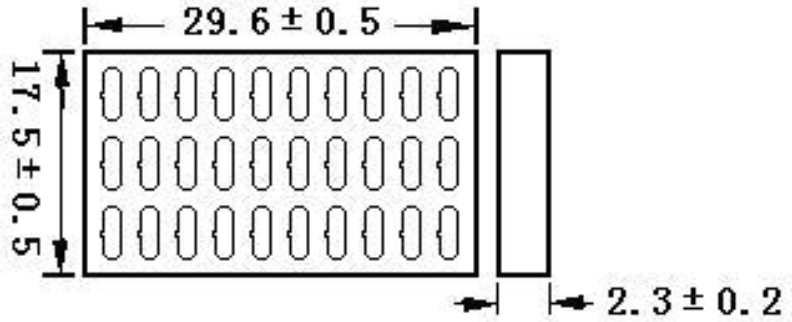


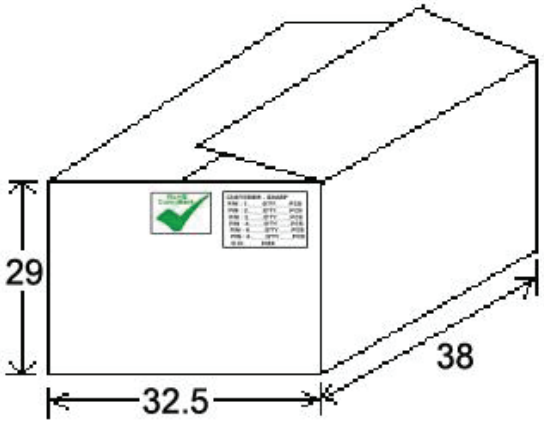
31.28 x 13.60 x 21.50 mm

PACKING: 30pcs/tray

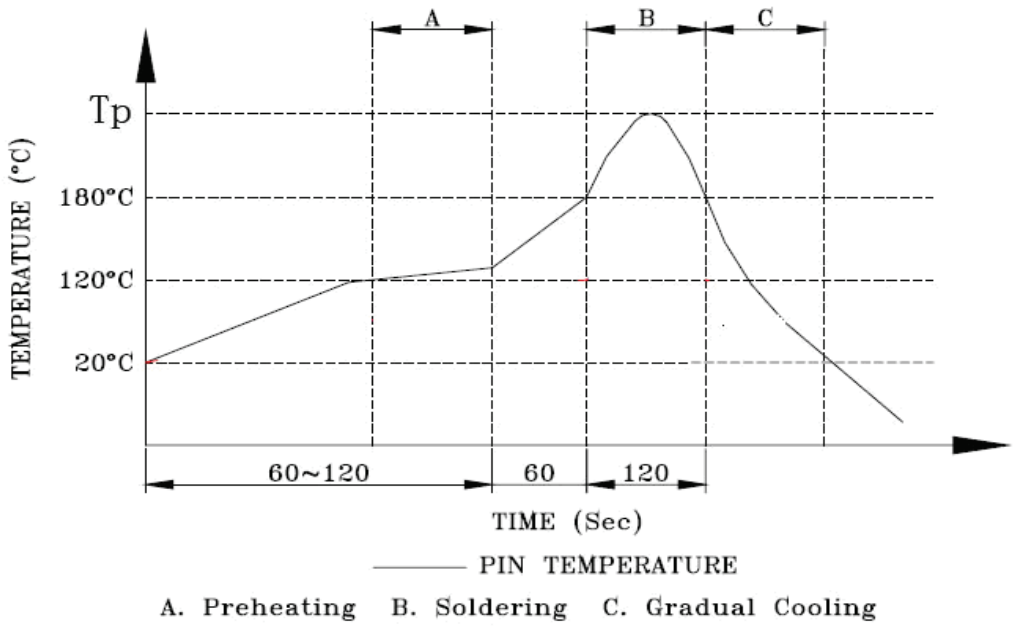
Packaging material: PET

Outer carton unit：600 pcs/ 20 Trays/box





REFLOW PROFILE:



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

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