

RJ45 10/100/1000 Base-T Jack with Magnetic Module

ARJ11F

RoHS
Compliant



16.26 x 13.84 x 21.59mm

FEATURES:

- 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:

- 10/100/1000 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	Turns Ratio $\pm 5\%$	EMI Fingers	LEDs	Insertion Loss (dB max)	Return Loss (dB TYP @100 Ω $\pm$ 15 Ω)				
			L/R	1- 100 MHz	1- 10 MHz	30 MHz	60 80 MHz	80 – 100 MHz	
ARJ11F-MASA-A-B-EM2	1CT:1CT	Yes	G/Y	-1	-20	-16	-12	-10	
ARJ11F-MASB-A-B-EM2	1CT:1CT	Yes	G/Y	-1	-20	-16	-12	-10	
ARJ11F-MBSC-L2	1CT:1	Yes	NONE	-1	-20	-16	-12	-10	
ARJ11F-MASD-AB-A-FM2	1CT:1CT	Yes	G Y/G	-1	-20	-16	-12	-10	
ARJ11F-MASE-A-A-EL2	1CT:1	Yes	G/G	-1	-20	-16	-12	-10	
ARJ11F-MASF-AB-A-FL2	1CT:1	Yes	G Y/G	-1	-20	-16	-12	-10	

Part Number	Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		Hipot (Vrms) @60Hz
	1 - 10 MHz	32 - 65 MHz	65 - 100 MHz	1 - 125 MHz	125 -500 MHz	
ARJ11F-MASA-A-B-EM2	-40	-35	-30	-30	-20	1500
ARJ11F-MASB-A-B-EM2	-40	-35	-30	-30	-20	1500
ARJ11F-MBSC-L2	-40	-35	-30	-30	-20	1500
ARJ11F-MASD-AB-A-FM2	-40	-35	-30	-30	-20	1500
ARJ11F-MASE-A-A-EL2	-40	-35	-30	-30	-20	1500
ARJ11F-MASF-AB-A-FL2	-40	-35	-30	-30	-20	1500

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

OPTIONS AND PART IDENTIFICATION

ARJ11F - - - -

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)	Gold plating
MA, MB (Please see mechanical section)	SA ~ SF (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, F (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	1: 3u “ 2: 6u “ 3: 15u “ 4: 30u “ 5: 50u “



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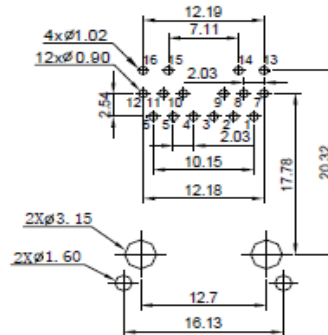
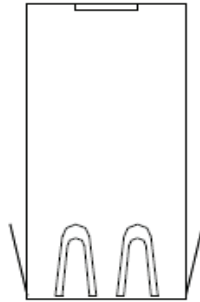
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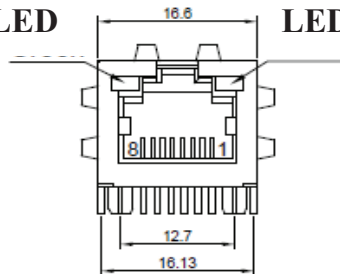
MECHANICAL DIMENSIONS

MA

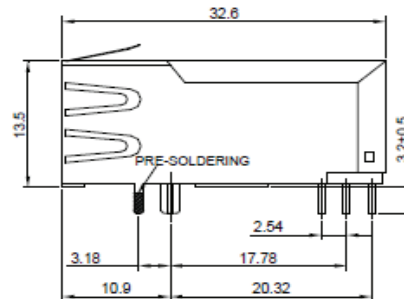


PC Board Layout
Component Side Shown

LED

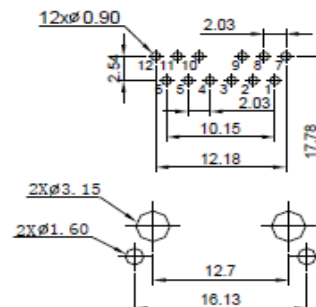
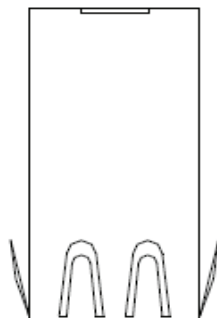


LED

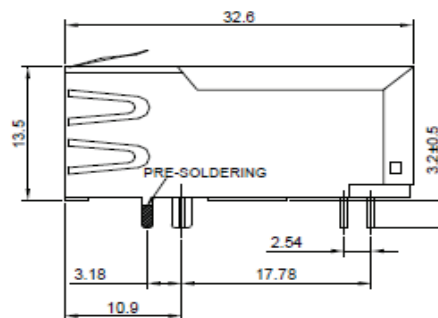
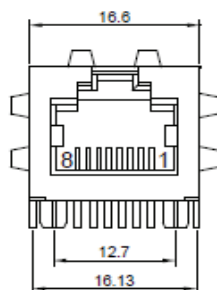


PC Board Layout
Component Side Shown

MB



PC Board Layout
Component Side Shown



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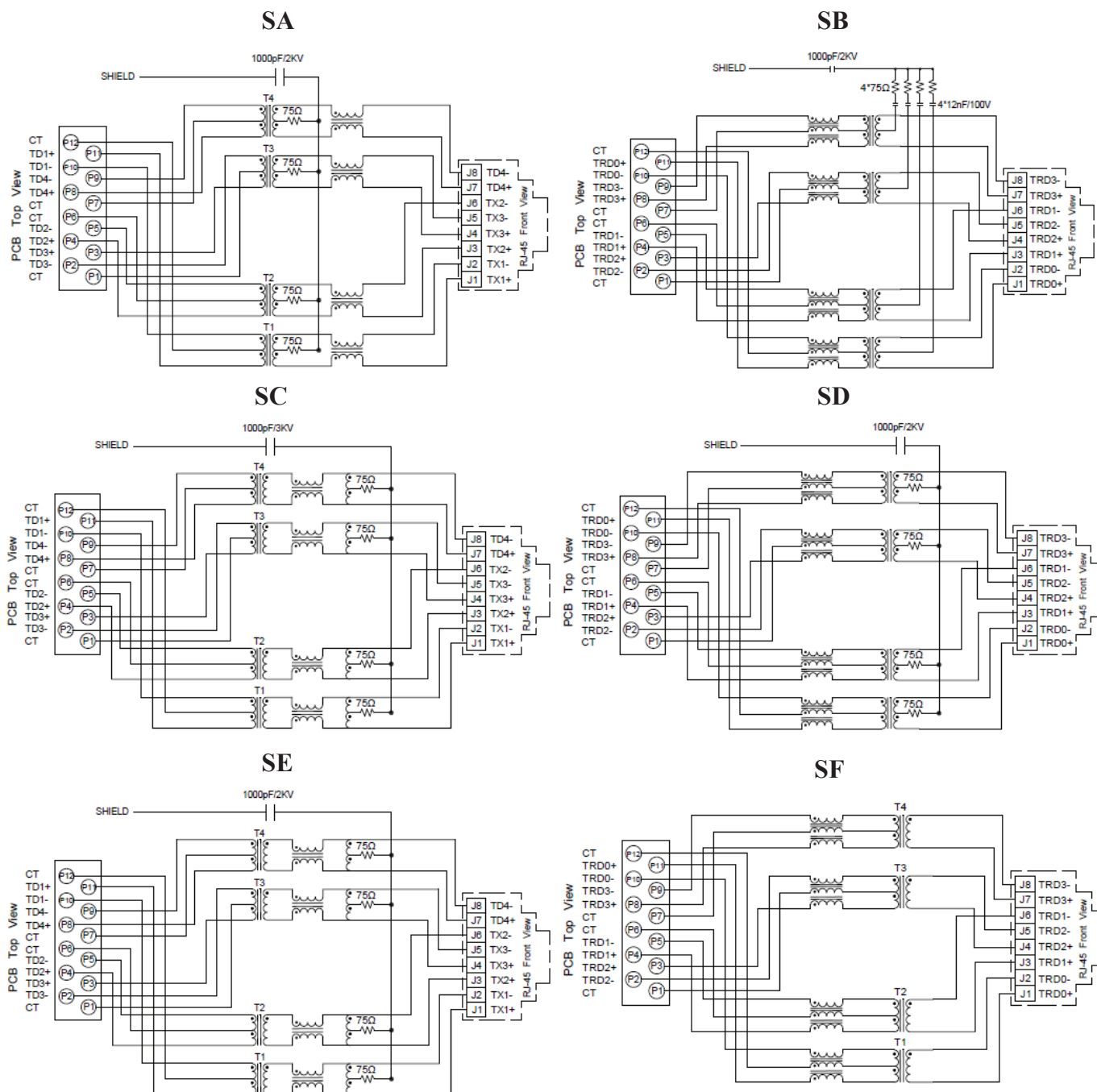
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SCHEMATICS



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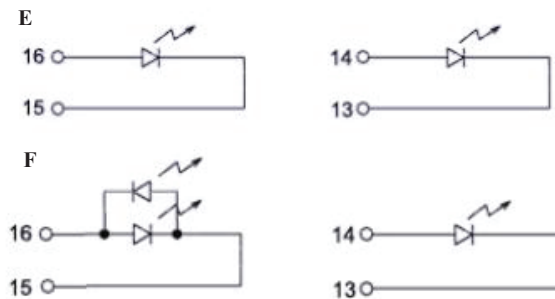
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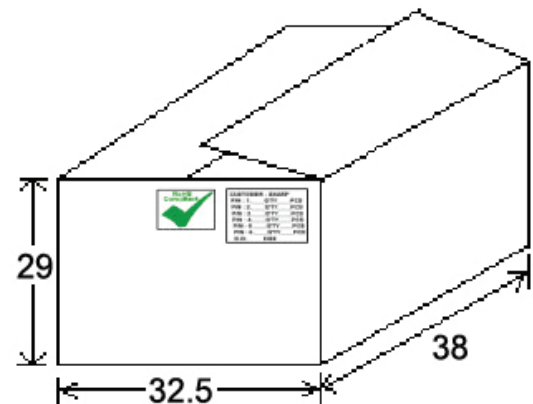
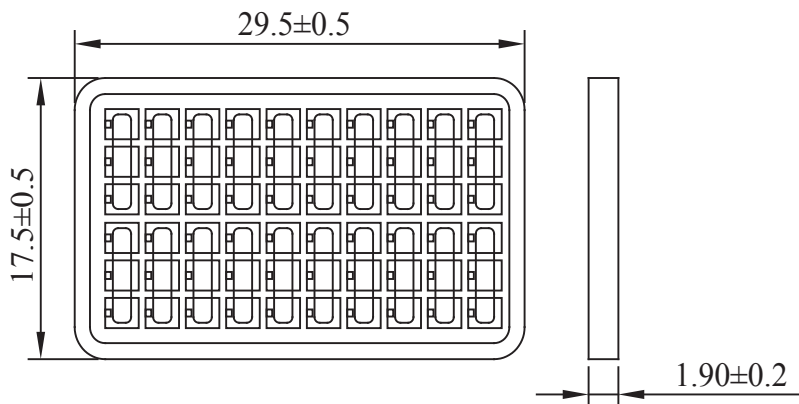
LED POLARITY



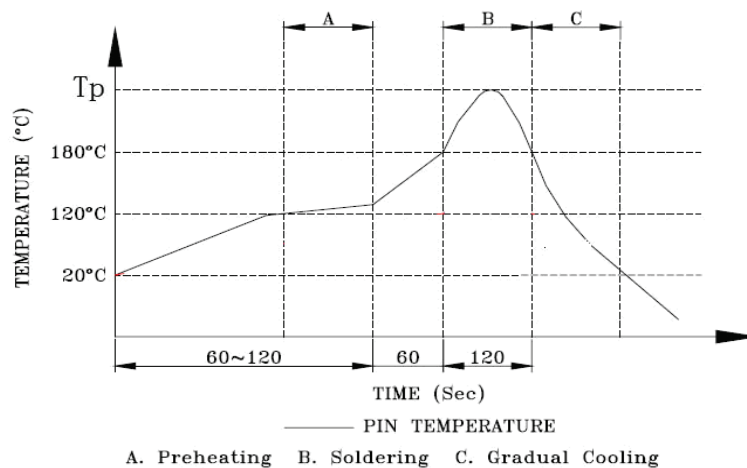
PACKING: 60pcs/tray

Packaging material: PET

Outer carton unit 1320 pcs/ 22 Trays/box



REFLOW PROFILE:



ak temperature(Tp) : 250± 10°C
ak temperature(Tp) time : 5sec max

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