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[Abracon Corporation](#)
[ARJP11C-MASA-A-B-EM2](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

RJ45 10/100 Base-T Jack with Magnetic Module and PoE

ARJP11C

RoHS
Compliant

16.6 x 13.5 x 32.6 mm

FEATURES:

- PoE
- 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 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 L/R	Insertion Loss (dB TYP) 1- 100 MHz	Return Loss (dB TYP @100 Ω ±15 Ω)		
	Tx	Rx				1- 10 MHz	30 MHz	60 - 80 MHz
ARJP11C-MASA-A-B-EMU2	1CT:1CT	1CT:1CT	Yes	G/Y	-1	-20	-16	-12
ARJP11C-MASB-AB-A-FMU2	1CT:1CT	1CT:1CT	Yes	G Y/G	-1	-20	-16	-12
ARJP11C-MBSC-L2	1CT:1	1CT:1	Yes	NONE	-1	-20	-16	-12
ARJP11C-MASD-AB-A-FMU2	1CT:1CT	1CT:1CT	Yes	G Y/G	-1	-20	-16	-12

Part Number	Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		Hipot (Vrms) @60Hz
	1 - 10 MHz	30 - 60 MHz	60 - 100 MHz	1 - 50 MHz	50 - 130 MHz	
ARJP11C-MASA-A-B-EMU2	-40	-35	-30	-26	-20	1500
ARJP11C-MASB-AB-A-FMU2	-40	-35	-30	-26	-20	1500
ARJP11C-MBSC-L2	-40	-35	-30	-26	-20	1000
ARJP11C-MASD-AB-A-FMU2	-40	-35	-30	-26	-20	1000

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

OPTIONS AND PART IDENTIFICATION

ARJP11C- - - - -

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, MB (Please see mechanical section)	SA ~ SD (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, F (Please see 7.0 LED polarity section)	L: 1CT:1	Blank: 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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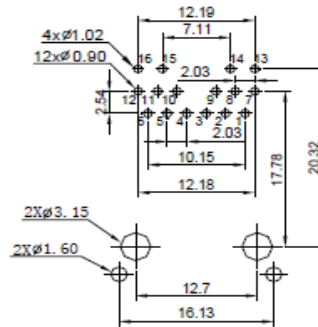
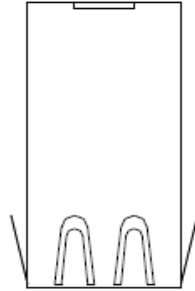
RoHS
Compliant



16.6 x 13.5 x 32.6 mm

MECHANICAL DIMENSIONS

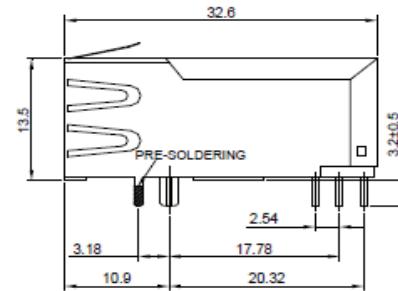
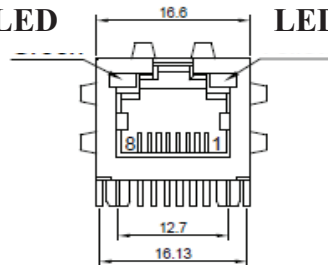
MA



PC Board Layout
Component Side Shown

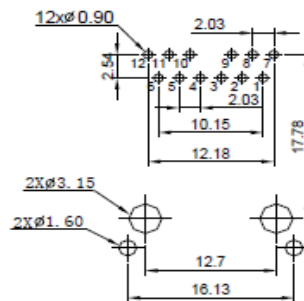
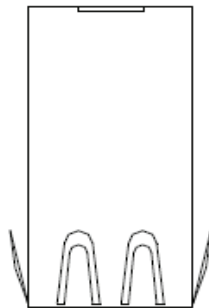
LED

LED

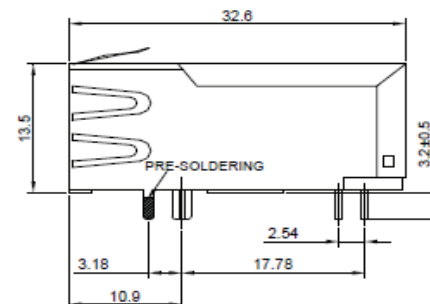
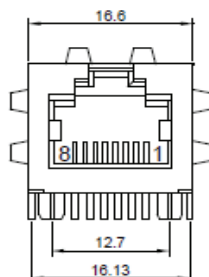


PC Board Layout
Component Side Shown

MB



PC Board Layout
Component Side Shown



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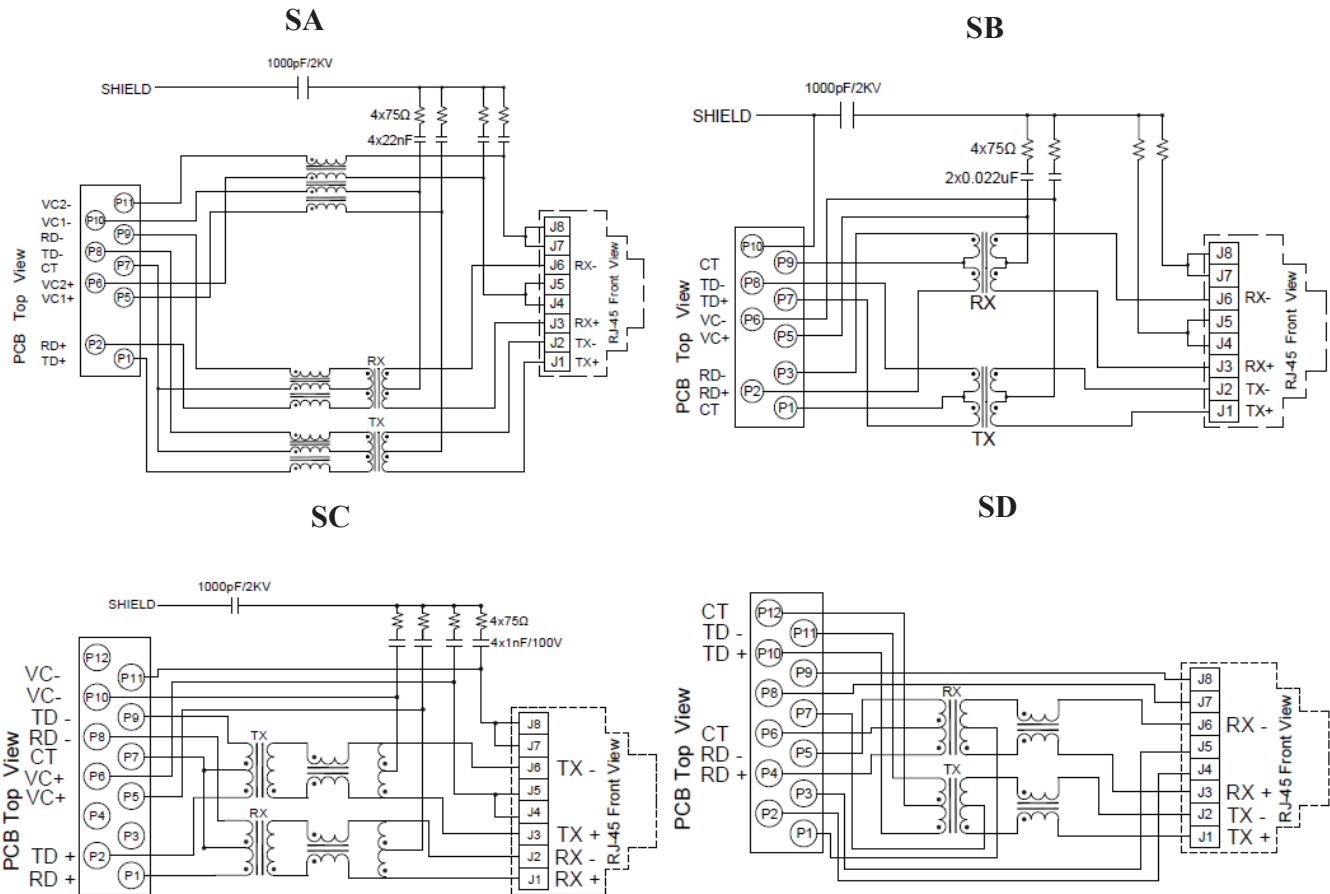
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**RoHS
Compliant**

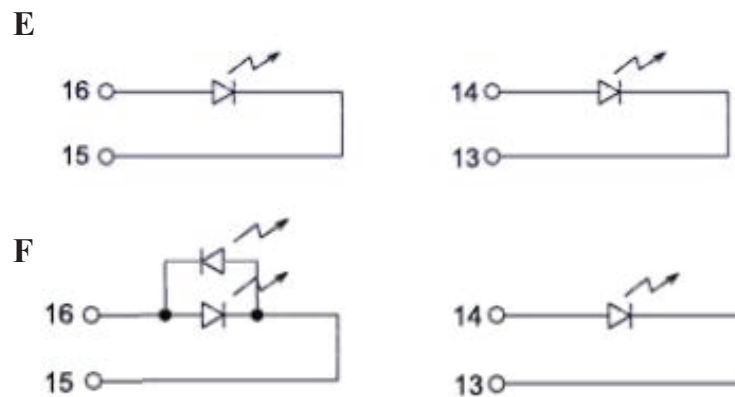


16.6 x 13.5 x 32.6 mm

SCHEMATICS



LED POLARITY



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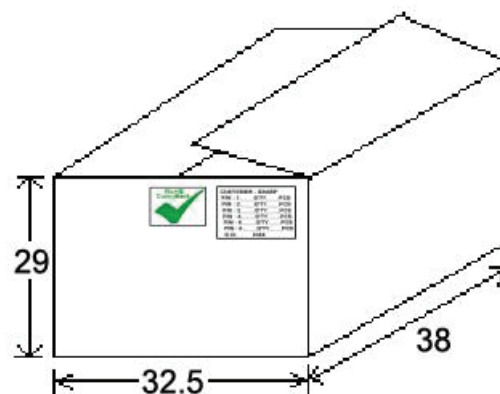
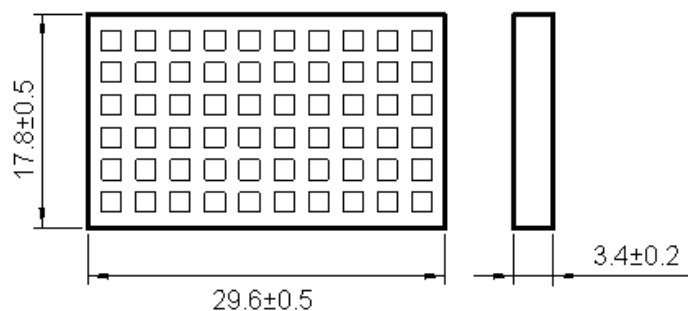
RoHS
Compliant

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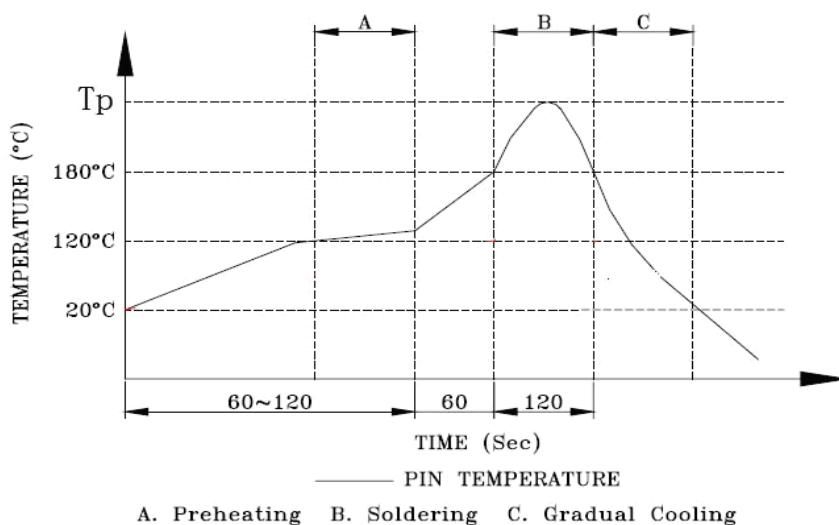
PACKING: 60pcs/tray

Packaging material: PET

Outer carton unit : 840 pcs/ 14 Trays/box



REFLOW PROFILE:



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

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