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



ARJ11C Series

Request Samples | Check Inventory

Various sizes
RoHS/RoHS II Compliant
MSL Level = N/A

Features

- Excellent EMI suppression
- Meets IEEE 802.3 standards and FCC mechanical requirements
- Low cost, RoHS compliant Reflowable device

Applications

- LAN-on-Motherboard (LOM)
- SOHO (ADSL modems), Hubs
- Suitable for CAT 5&6 Fast Ethernet Cable or better UTP
- Switches/Routers

Electrical Specifications

Part Number	Turns Ratio		EMI Fingers	LED (L/R)	Insertion Loss (dB max)	Return Loss (dB min @100Ω±15Ω)			
	TX	RX			0.3-100 MHz	1- 30 MHz	40 MHz	50 MHz	60 - 100 MHz
ARJ11C-MBSAS-A-BA-☐MU2	1CT:1CT	1CT:1CT	Yes	G/YG	-1.2	-16	-13.5	-11.5	-10
ARJ11C-MBSAT-A-B-☐MU2	1CT:1CT	1CT:1CT	Yes	G/Y	-1.2	-16	-13.5	-11.5	-10
ARJ11C-MBSAS-A-B-☐MU2	1CT:1CT	1CT:1CT	Yes	G/Y	-1.2	-16	-13.5	-11.5	-10
ARJ11C-MBSAU- A-B-☐MU2	1CT:1CT	1CT:1CT	Yes	G/Y	-1.2	-16	-13.5	-11.5	-10
ARJ11C-MCSAT- A-B-☐MU2	1CT:1CT	1CT:1CT	Yes	G/Y	-1.1	-15	-15	-15	-12
ARJ11C-MASAA- B-A-☐LU2	1CT:1	1CT:1CT	Yes	Y/G	-1.2	-14	-14	-14	-10
ARJ11C-MASAB- B-A-☐MU2	1CT:1CT	1CT:1CT	Yes	Y/G	-1.2	-14	-14	-14	-10
ARJ11C-MASAD- A-A-☐MU2	1CT:1CT	1CT:1CT	Yes	G/G	-1.2	-14	-14	-14	-10

Part Number	Crosstalk (dB min)			DCMR (dB min)			Hipot (Vrms)
	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
ARJ11C-MBSAS-A-BA-☐MU2	-40	-36	-30	-35	-32	-30	1500
ARJ11C-MBSAT-A-B-☐MU2	-40	-36	-30	-35	-32	-30	1500
ARJ11C-MBSAS-A-B-☐MU2	-40	-36	-30	-35	-32	-30	1500
ARJ11C-MBSAU- A-B-☐MU2	-40	-36	-30	-35	-32	-30	1500
ARJ11C-MCSAT- A-B-☐MU2	-35	-26	-24	-35	-32	-30	1500
ARJ11C-MASAA- B-A-☐LU2	-40	-36	-30	-35	-32	-30	1500
ARJ11C-MASAB- B-A-☐MU2	-40	-36	-30	-35	-32	-30	1500
ARJ11C-MASAD- A-A-☐MU2	-40	-36	-30	-35	-32	-30	1500

DCMR: Differential to Common Mode Rejection

☐: LED Polarity Option

ARJ11C-MA: 1 or 2
ARJ11C-MBSAS: 7
ARJ11C-MB: 3 or 4
ARJ11C-MC: 5 or 6

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

Operating Temperature: 0°C to +70°C
Storage Temperature: -40°C to +85°C
ARJ11C Series is RoHS Compliant.
Operating life: 750 Cycles min.

ABRACON

12117 Bee Caves Rd Bldg-3, Ste 200
Bee Cave, TX 78738
Ph: (512) 371-6159
Fax: (512) 351-8858

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Part Identification

ARJ11C - □□ - □ - □ - □□□□

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, or All pairs for 1000 Base-T)	Turns Ratio (Rx, or Blank for 1000 Base-T)	Gold plating
MA ~ MC (Please see mechanical section)	SAA ~ SCB (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	1 ~ 7 (Please see 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	

Materials

Housing Material:
MATERIAL: NYLON GF (Fr50) UL94V-0
STANDARD COLOR: BLACK

Insert Material:
MATERIAL: Phos–Bronze C5210 EH---0.35mm Thickness
Insert –PBT GF UL94V-0
1.PLATING (1) NICKEL
2.PLATING (2) 100%Sn
3.PLATING (3) GOLD (3u " ～50u ") (see options)

Plate Material:
PBT GF UL 94V-0

Contact pin Material:
MATERIAL: Phos–Bronze C5191---0.35mm Thickness
1.PLATING (1) NICKEL
2.PLATING (2) 100%Sn

Shielding Material:
BRASS C2680 PLATING NICKEL

Note: No material substitutions allowed without prior approval by customers in writing

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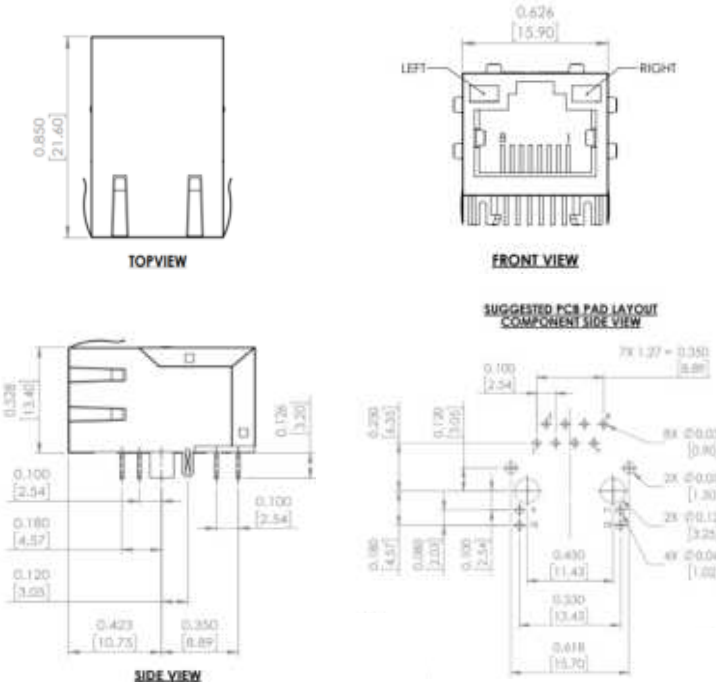
ARJ11C Series

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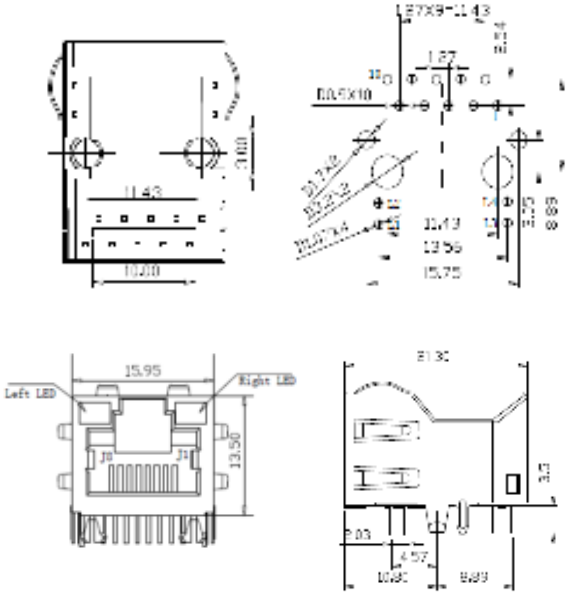
Various sizes
RoHS/RoHS II Compliant
MSL Level = N/A

Mechanical Specifications

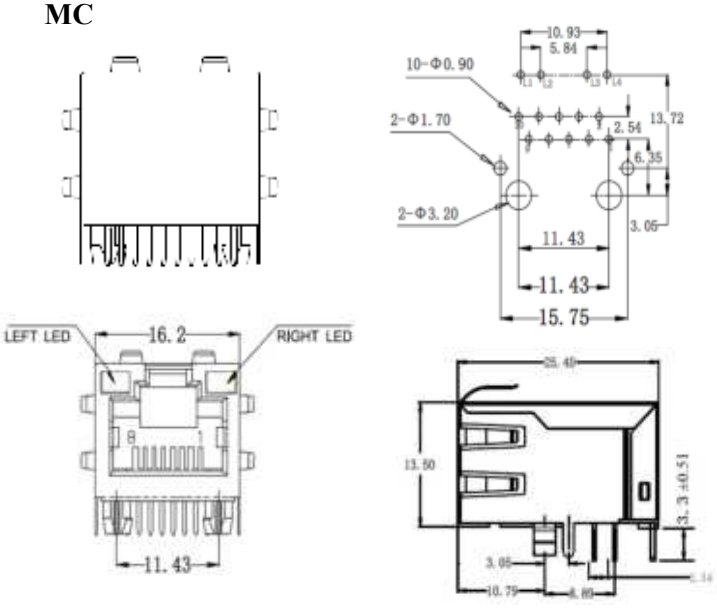
MA



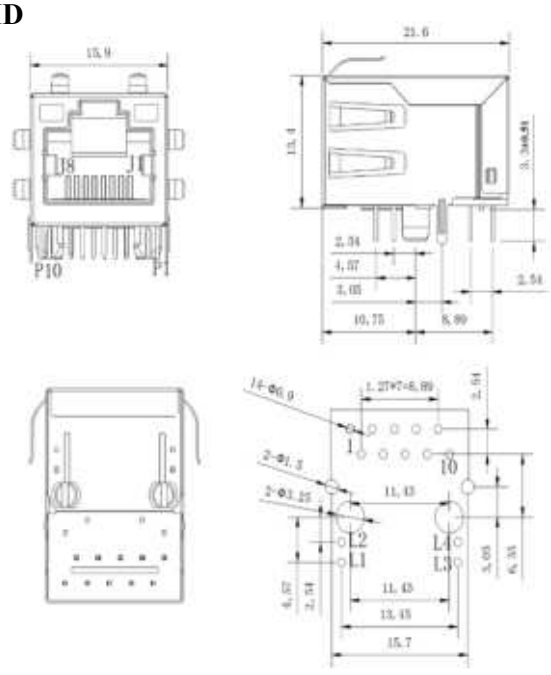
MB



MC



MD



Dimensions: mm
Unless otherwise noted, all tolerances are ±0.25mm

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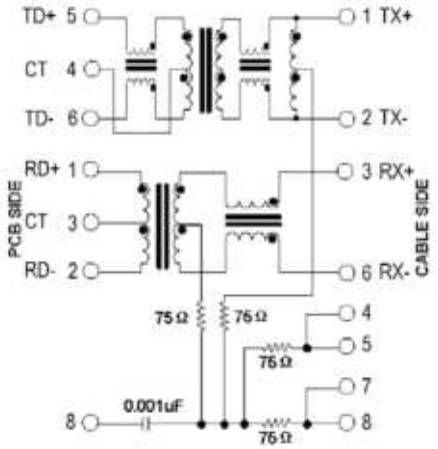
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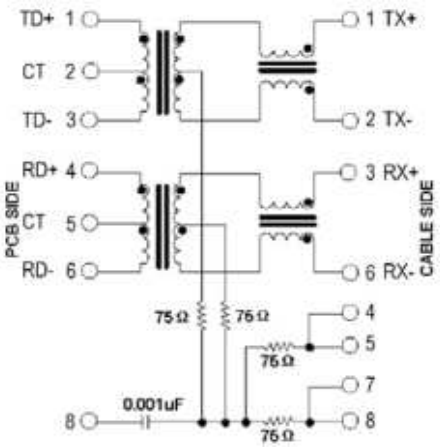
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Schematics

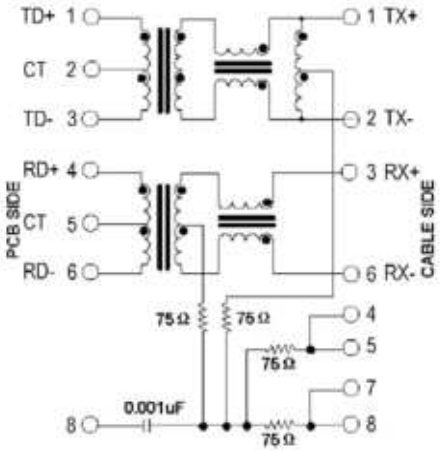
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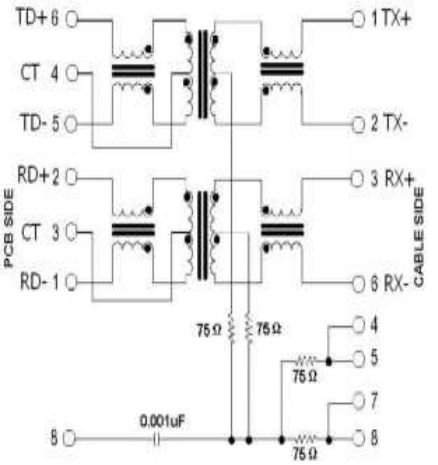
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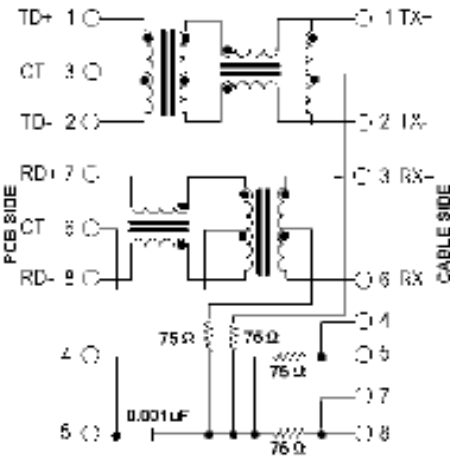
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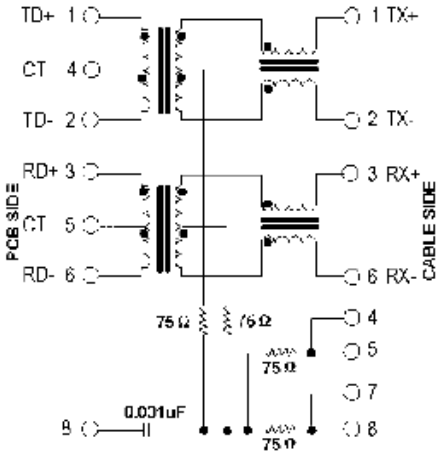
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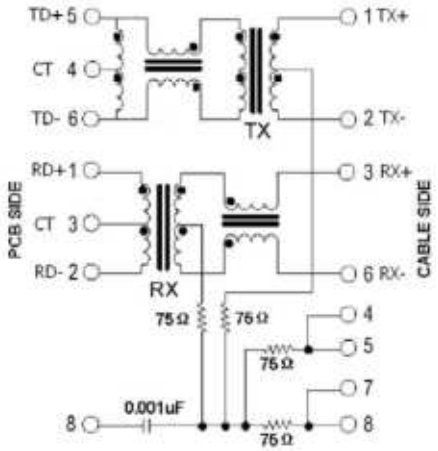
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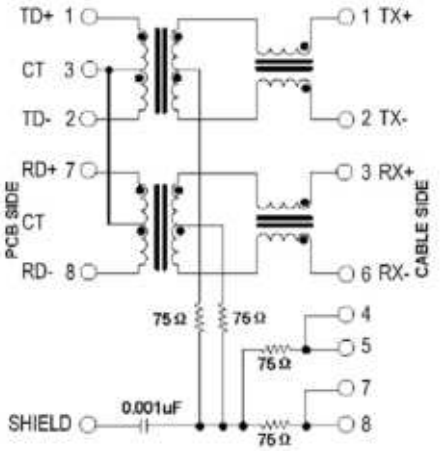
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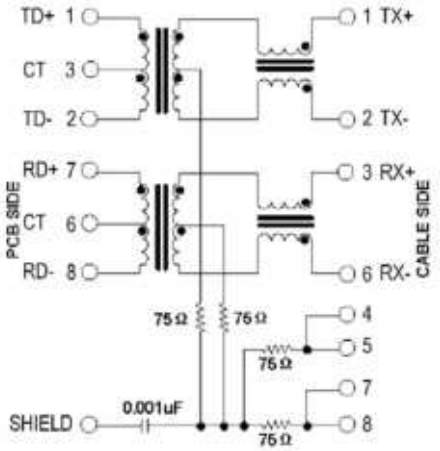
SAG



SAH



SAI



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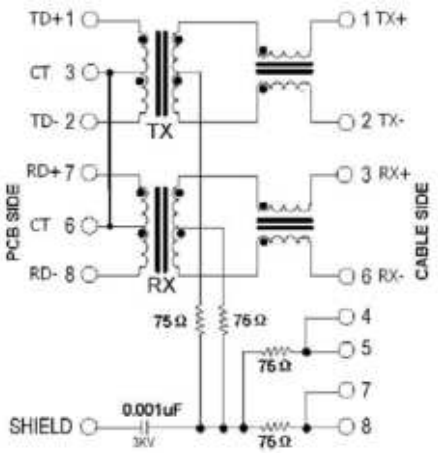


ARJ11C Series

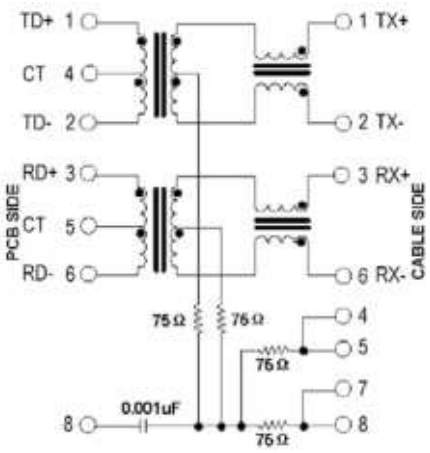
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Various sizes
RoHS/RoHS II Compliant
MSL Level = N/A

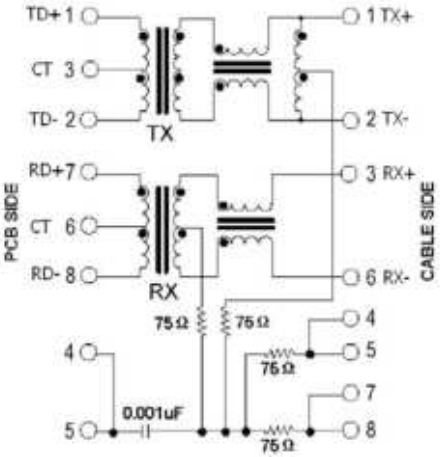
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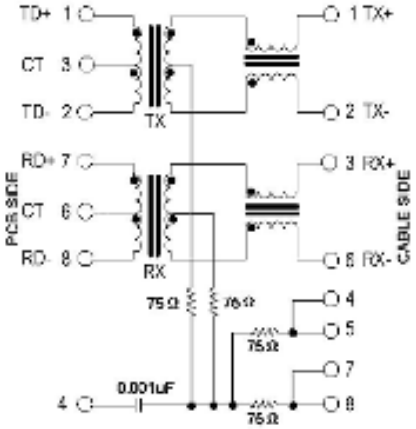
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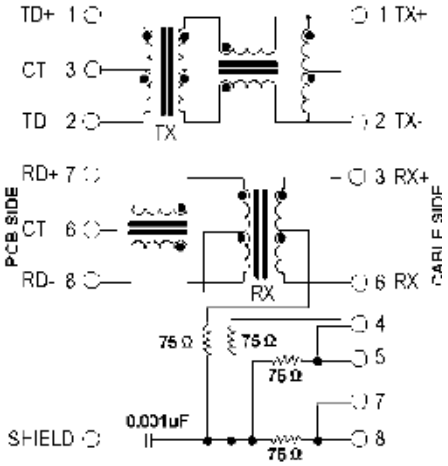
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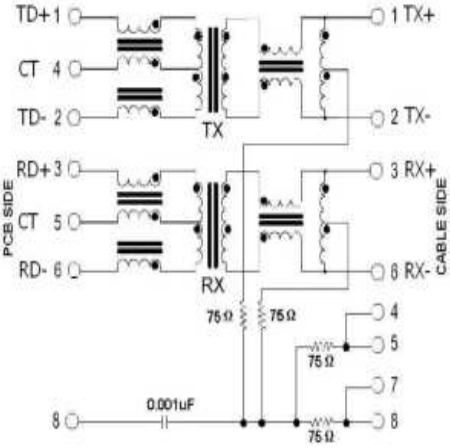
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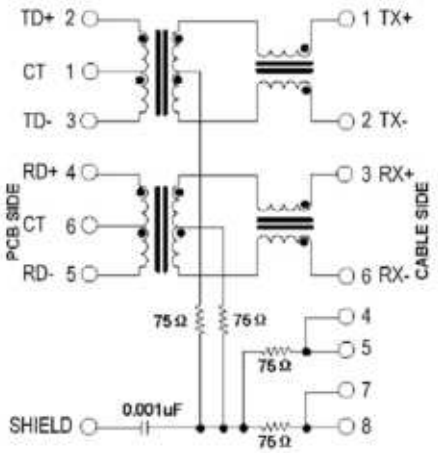
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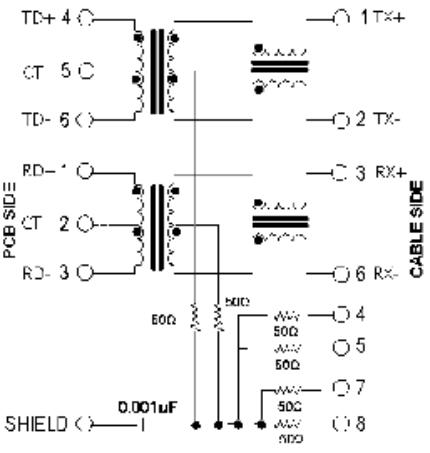
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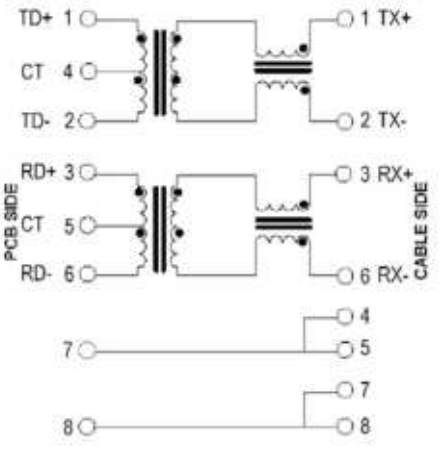
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SAQ



SAR



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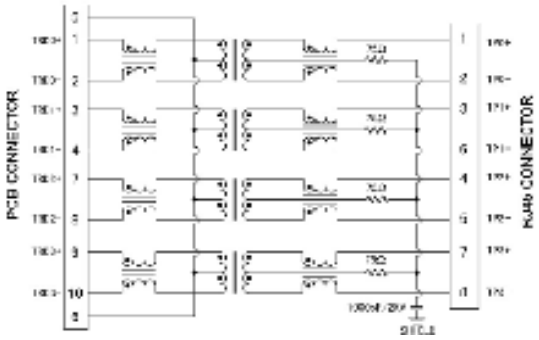
ARJ11C Series

Request Samples

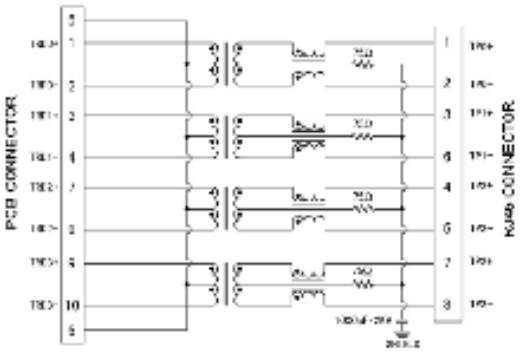
Check Inventory

Various sizes
RoHS/RoHS II Compliant
MSL Level = N/A

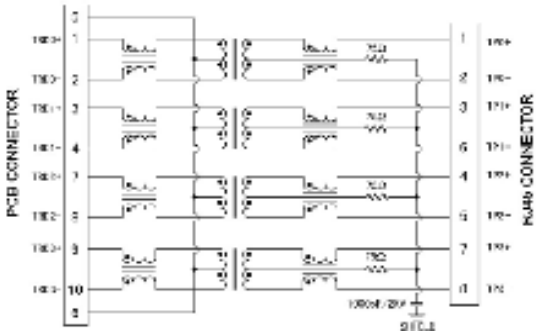
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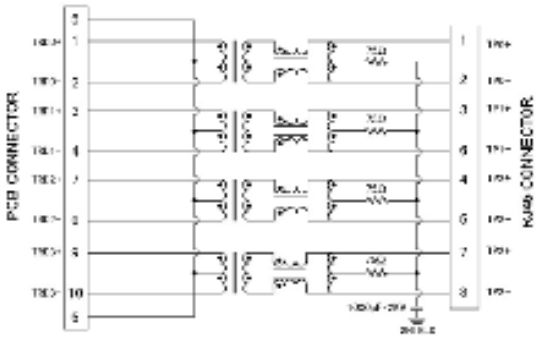
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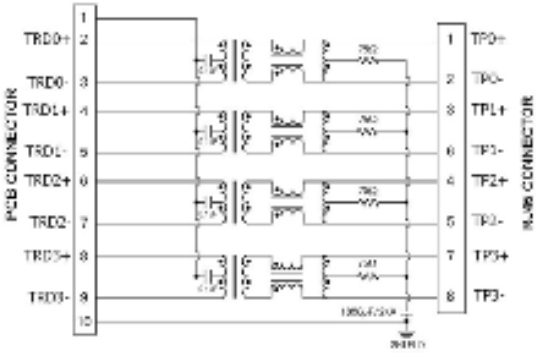
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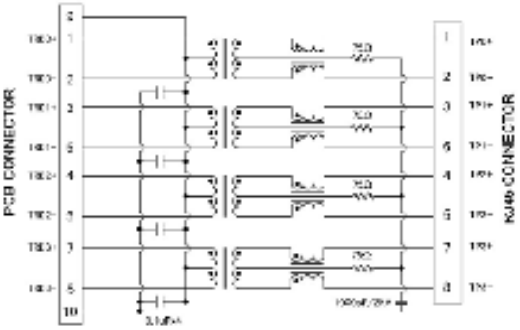
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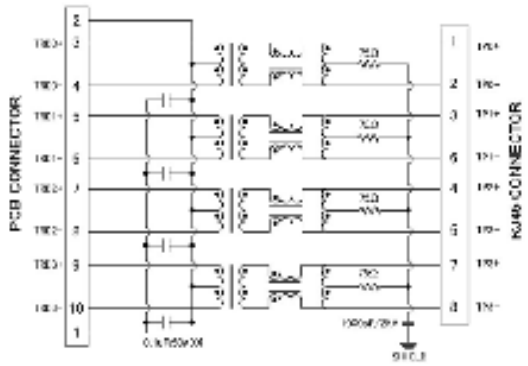
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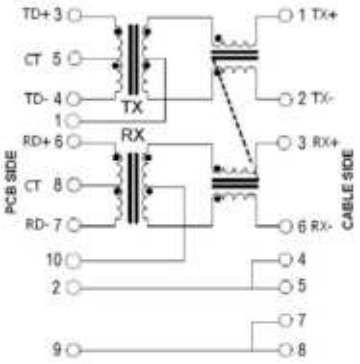
SAX



SAY



SAZ



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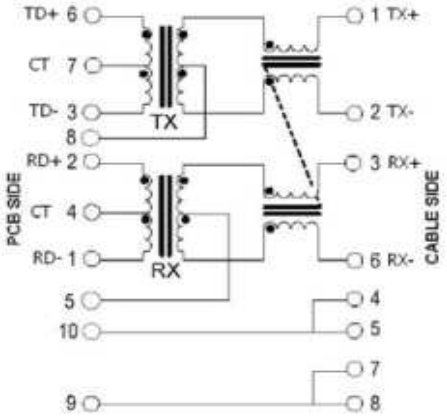


ARJ11C Series

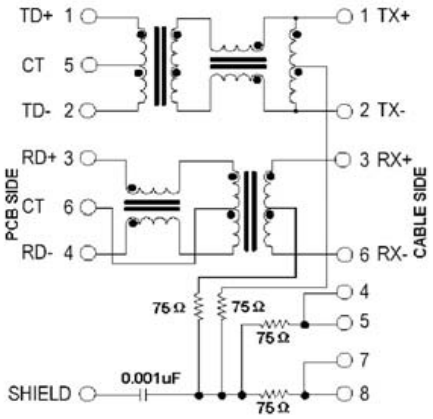
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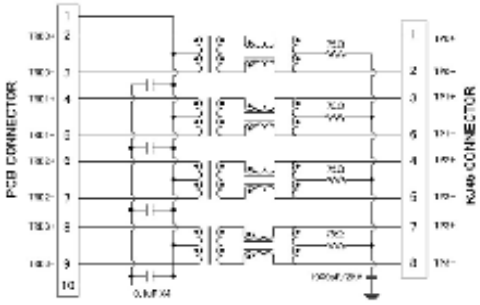
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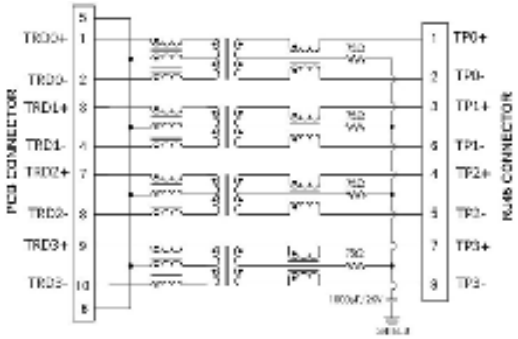
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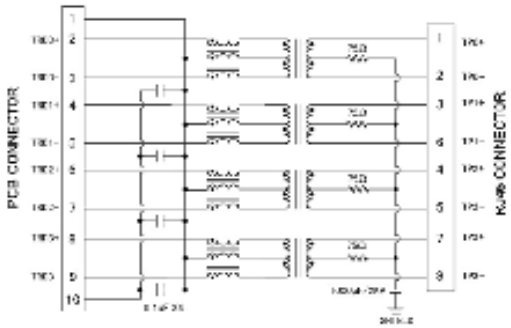
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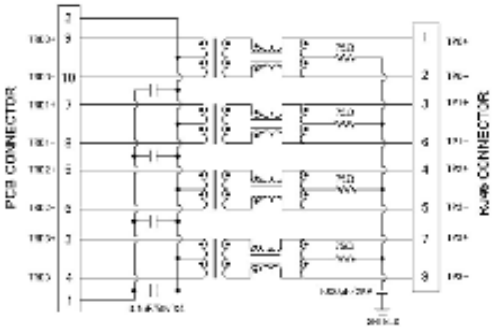
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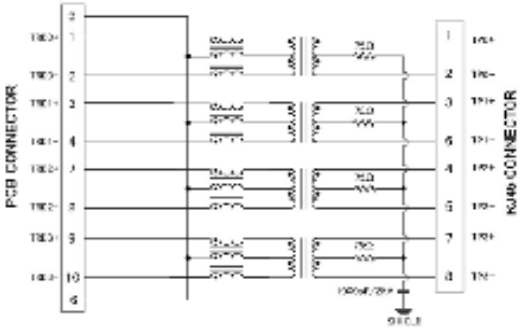
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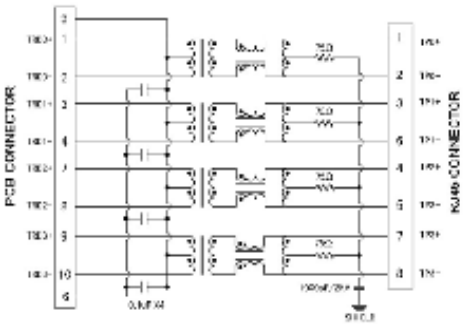
SBF



SBG



SBH



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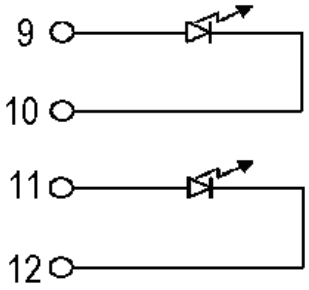
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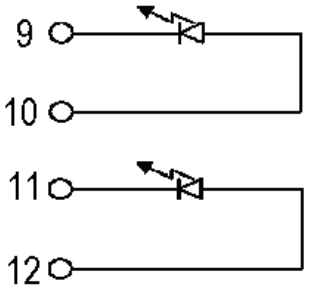
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RoHS/RoHS II Compliant
MSL Level = N/A

LED polarity

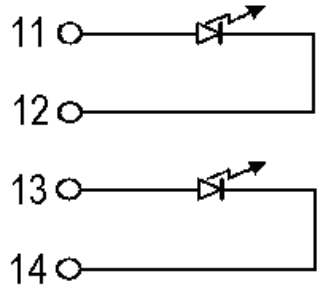
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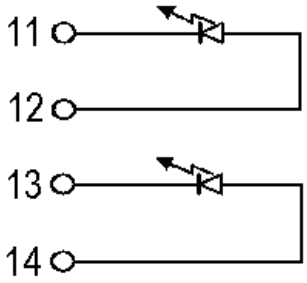
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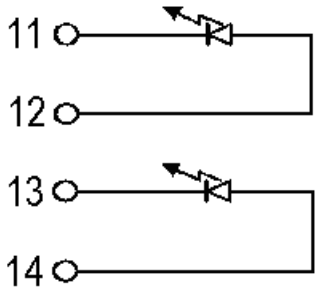
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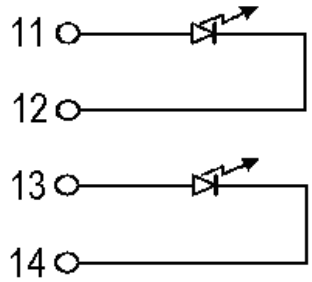
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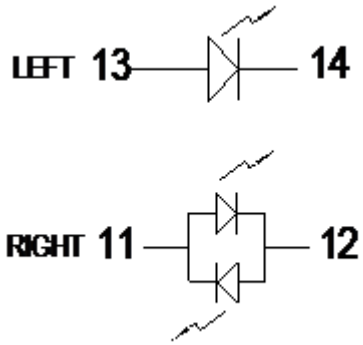
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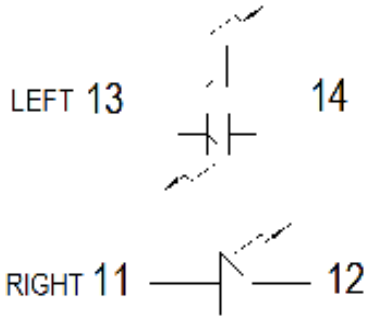
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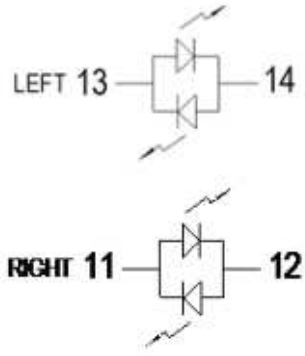
7



8



9



ABRACON

12117 Bee Caves Rd Bldg-3, Ste 200
Bee Cave, TX 78738
Ph: (512) 371-6159
Fax: (512) 351-8858

REVISION C : 7/2/2025

ABRACON IS
ISO9001-2015
CERTIFIED

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

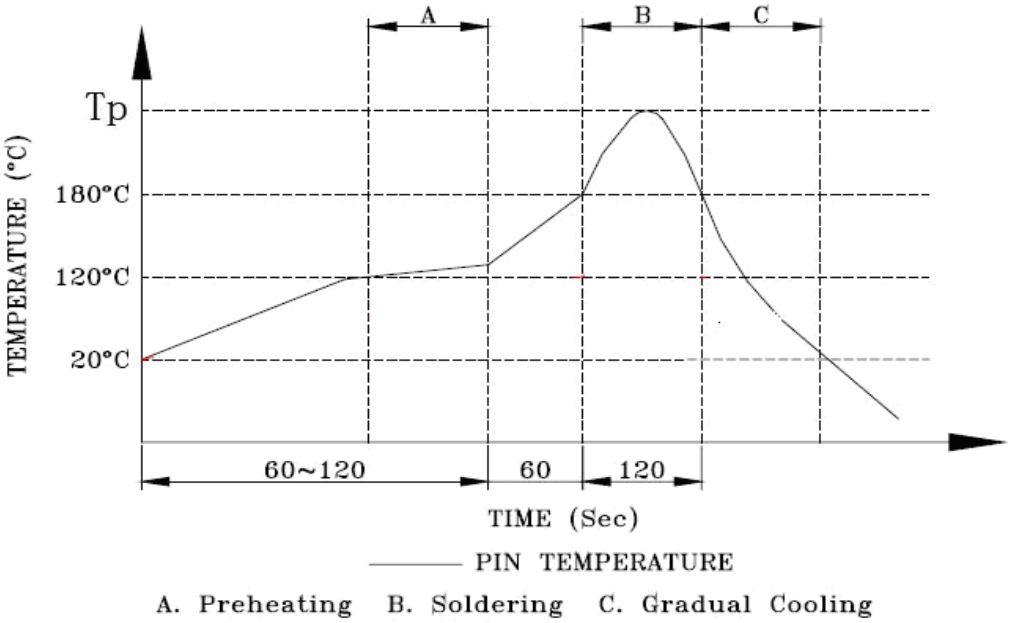


ARJ11C Series

Request Samples | Check Inventory

Various sizes
RoHS/RoHS II Compliant
MSL Level = N/A

Reflow Profile



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

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



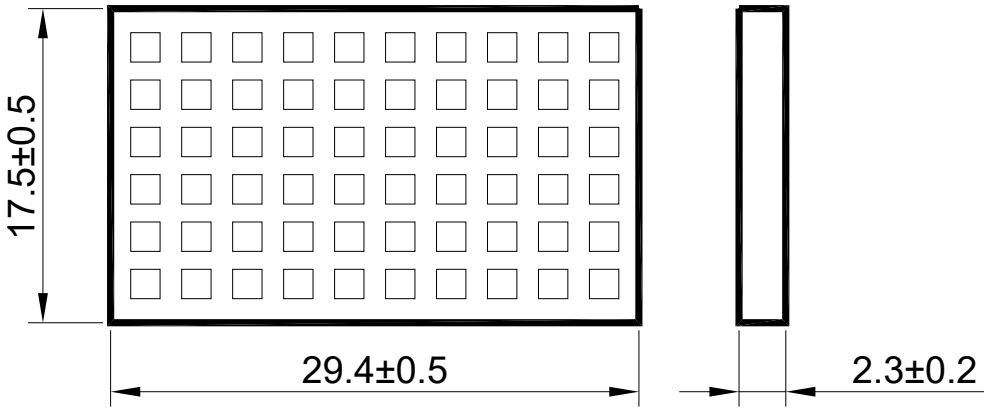
ARJ11C Series

Request Samples | Check Inventory

Various sizes
RoHS/RoHS II Compliant
MSL Level = N/A

Packaging

60 pcs/tray
Packaging material: PET



Dimensions: mm

ATTENTION: Abracon LLC'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-dependent 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 LLC is required. Please contact Abracon LLC for more information.

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