RJ45 10/100 Base-T Jack with Magnetic Module



ARJ11B Series

Request Samples

Check Inventory

16.26 x 13.84 x 21.59mm
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

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
ARJ11B-MASAA-MU2 to ARJ11B-MASAI-MU2	1CT:1CT	1CT:1CT	YES	---	-1.0	-18	-16	-14	-12
ARJ11B-MASAJ-MU2 to ARJ11B-MASAM-MU2	1CT:1CT	1CT:1CT	YES	---	-1.0	-18	-16	-14	-12
ARJ11B-MASAN-LU2 to ARJ11B-MASBF-LU2	1CT:1	1CT:1CT	YES	---	-1.0	-18	-16	-14	-12
ARJ11B-MESCB-A-B-ELT2	1CT:1	1CT:1	NO	G/Y	-1.0	-18	-16	-12	-10
ARJ11B-MASCB-LT2	1CT:1	1CT:1	YES	---	-1.0	-18	-16	-12	-10
ARJ11B-MBSCB-A-B-ELT2	1CT:1	1CT:1	YES	G/Y	-1.0	-18	-16	-12	-10
ARJ11B-MDSBQ-MU2	1CT:1CT	1CT:1CT	NO	---	-1.0	-18	-16	-12	-10
ARJ11B-MESBQ-A-B-EMU2	1CT:1CT	1CT:1CT	NO	G/Y	-1.0	-18	-16	-12	-10
ARJ11B-MASBQ-MU2	1CT:1CT	1CT:1CT	YES	---	-1.0	-18	-16	-12	-10
ARJ11B-MBSBQ-A-B-EMU2	1CT:1CT	1CT:1CT	YES	G/Y	-1.0	-18	-16	-12	-10
ARJ11B-MFSBQ-A-A-EMU2	1CT:1CT	1CT:1CT	YES	G/G	-1.0	-18	-16	-12	-10
ARJ11B-MASAJ-MU2	1CT:1CT	1CT:1CT	YES	---	-1.0	-18	-16	-12	-10
ARJ11B-MASBR-QU2	1CT:1.414CT	1CT:1CT	YES	---	-1.0	-18	-16	-12	-10
ARJ11B-MFSBR-A-A-EQU2	1CT:1.414CT	1CT:1CT	YES	G/G	-1.0	-18	-16	-12	-10
ARJ11B-MDSAO-LU2	1CT:1	1CT:1CT	NO	---	-1.0	-18	-16	-12	-10
ARJ11B-MESAO-A-B-ELU2	1CT:1	1CT:1CT	NO	G/Y	-1.0	-18	-16	-12	-10
ARJ11B-MESAO-A-A-ELU2	1CT:1	1CT:1CT	NO	G/G	-1.0	-18	-16	-12	-10
ARJ11B-MASAO-LU2	1CT:1	1CT:1CT	YES	---	-1.0	-18	-16	-12	-10
ARJ11B-MBSAO-A-B-ELU2	1CT:1	1CT:1CT	YES	G/Y	-1.0	-18	-16	-12	-10
ARJ11B-MFSAO-A-A-ELU2	1CT:1	1CT:1CT	YES	G/G	-1.0	-18	-16	-12	-10
ARJ11B-MFSAO-BA-A-GLU2	1CT:1	1CT:1CT	YES	YG/G	-1.0	-18	-16	-12	-10
ARJ11B-MBSAP-A-B-ELU2	1CT:1	1CT:1CT	YES	G/Y	-1.0	-18	-16	-12	-10
ARJ11B-MASAC-MU2	1CT:1CT	1CT:1CT	YES	---	-1.0	-18	-16	-12	-10
ARJ11B-MASAD-OW2	1CT;1.41CT	1CT:1.41CT	YES	---	---	--	--	--	--
ARJ11B-MBSAI-A-B-EMU2	1CT:1CT	1CT:1CT	YES	G/Y	-1.0	-18	-16	-12	-10
ARJ11B-MASCC-MU2	1CT:1CT	1CT:1CT	YES	---	-1.0	-18	-16	-12	-10
ARJ11B-MESBW-B-A-EMU2	1CT:1CT	1CT:1CT	NO	Y/G	-1.0	-18	-16	-12	-10
ARJ11B-MDSCD-MU2	1CT:1CT	1CT:1CT	NO	---	-1.0	-20 min (30MHz)	--	--	-15 typ (80MHz)

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ARJ11B Series

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MSL Level = N/A

Electrical Specifications

Part Number	Crosstalk (dB min)			DCMR (dB min)			Hipot (Vrms)
	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
ARJ11B-MASAA-MU2 to ARJ11B-MASAI-MU2	-45	-40	-35	-35	-30	-25	1500
ARJ11B-MASAJ-MU2 to ARJ11B-MASAM-MU2	-45	-40	-35	-35	-30	-25	1500
ARJ11B-MASAN-LU2 to ARJ11B-MASBF-LU2	-45	-40	-35	-35	-30	-25	1500
ARJ11B-MESCB-A-B-ELT2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MASCB-LT2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MBSCB-A-B-ELT2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MDSBQ-MU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MESBQ-A-B-EMU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MASBQ-MU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MBSBQ-A-B-EMU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MFSBQ-A-A-EMU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MASAJ-MU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MASBR-QU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MFSBR-A-A-EQU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MDSAO-LU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MESAO-A-B-ELU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MESAO-A-A-ELU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MASAO-LU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MBSAO-A-B-ELU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MFSAO-A-A-ELU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MFSAO-BA-A-GLU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MBSAP-A-B-ELU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MASAC-MU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MASAD-OW2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MBSAI-A-B-EMU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MASCC-MU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MESBW-B-A-EMU2	-40	-35	-30	-30	-20	-20	1500
ARJ11B-MDSCD-MU2	--	--	--	--	--	--	1500

DCMR: Differential to Common Mode Rejection
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.

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ROHS/ROHS II COMPLIANT
MSL Level = N/A

Part Identification

ARJ11B - ☐☐ - ☐ - ☐ - ☐☐☐☐

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 ~ MF (Please see mechanical section)	SAA ~ SCC (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 ~ J (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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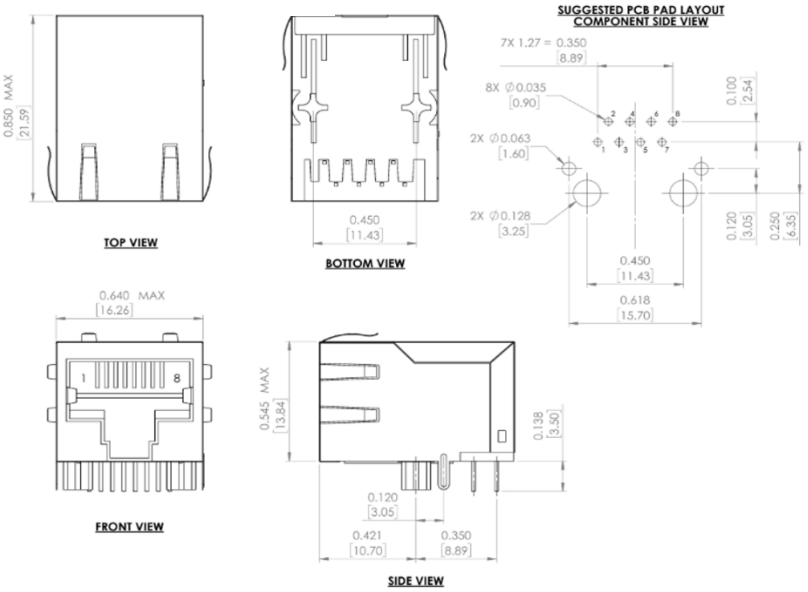
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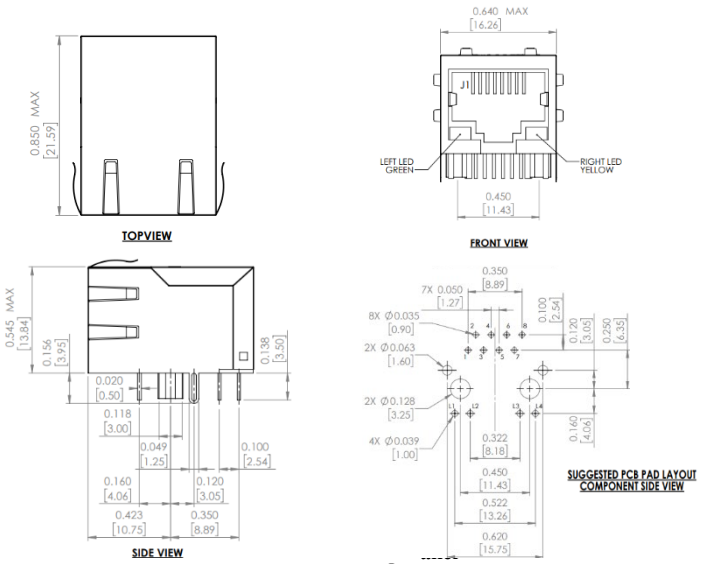
16.26 x 13.84 x 21.59mm
ROHS/ROHS II COMPLIANT
MSL Level = N/A

Mechanical Specifications

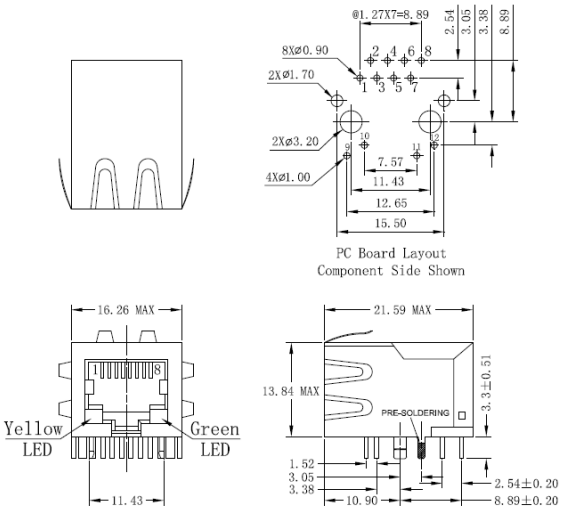
MA



MB

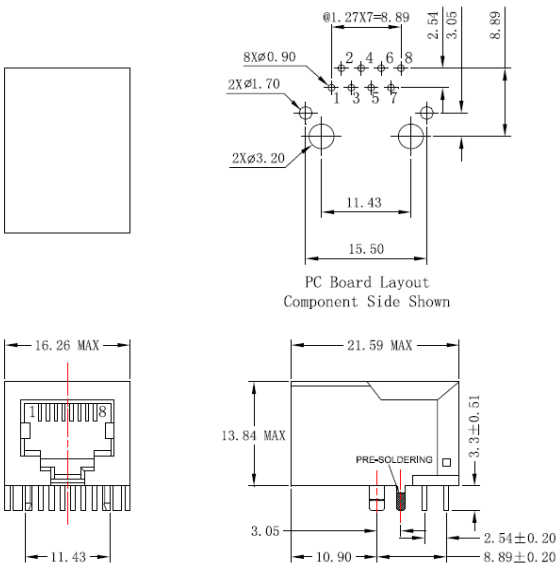


MC



LED pins are oblique

MD



Dimensions: mm (Unless otherwise specified, tolerances are ± 0.25mm)

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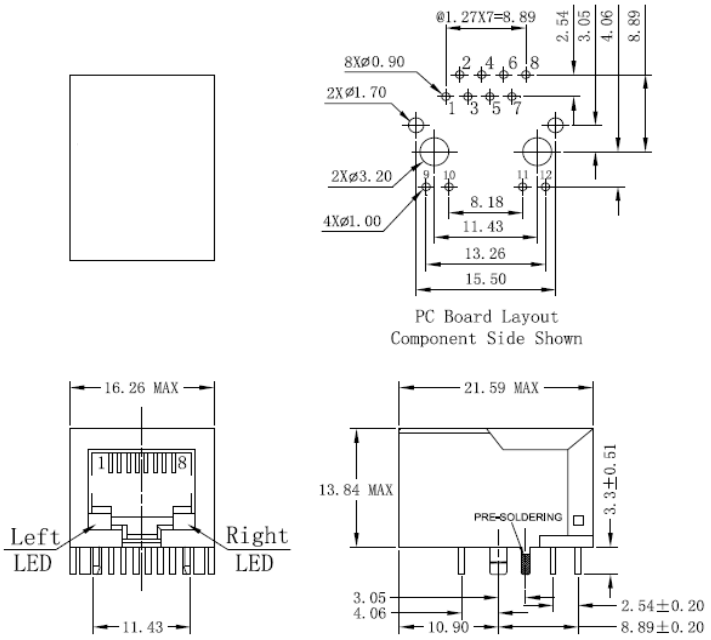
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ROHS/ROHS II COMPLIANT
MSL Level = N/A

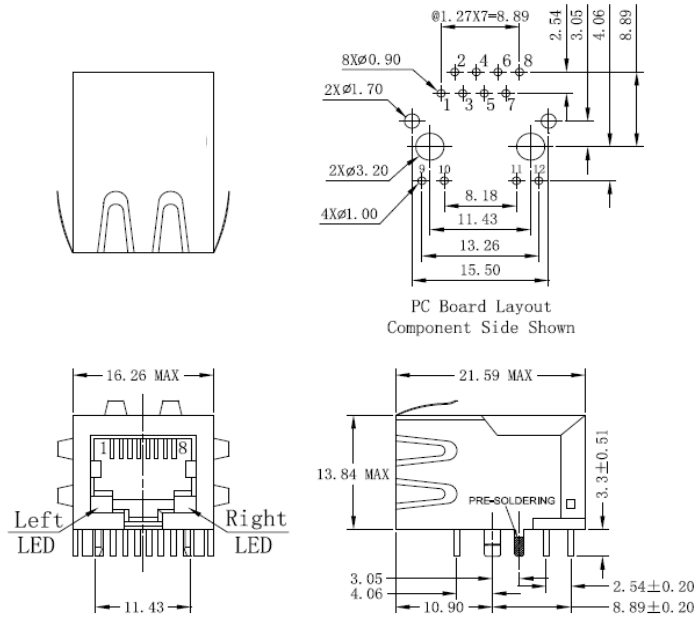
Mechanical Specifications

ME



LED pins are parallel

MF



LED pins are parallel

Dimensions: mm (Unless otherwise specified, tolerances are ± 0.25mm)

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ARJ11B Series

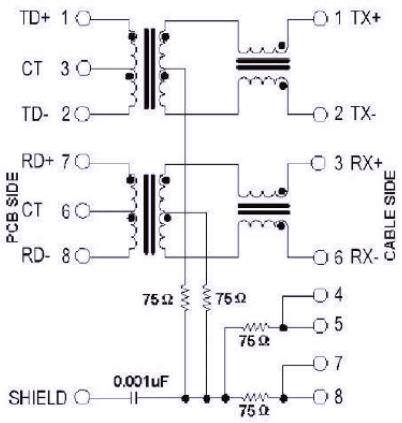
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Check Inventory

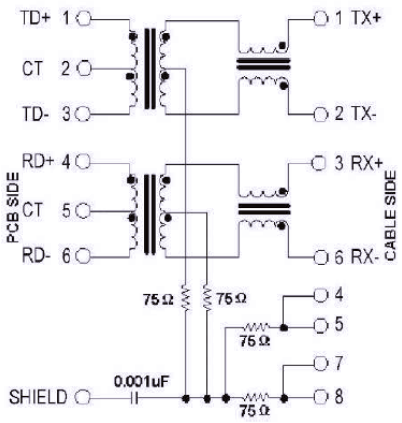
16.26 x 13.84 x 21.59mm
ROHS/ROHS II COMPLIANT
MSL Level = N/A

Schematics

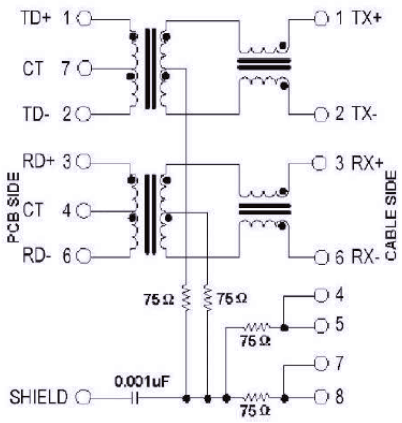
SAA



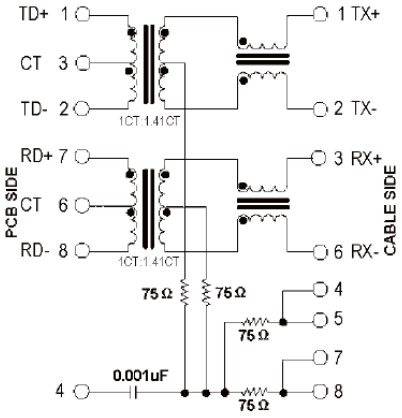
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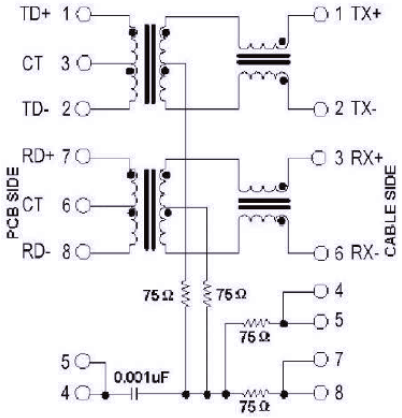
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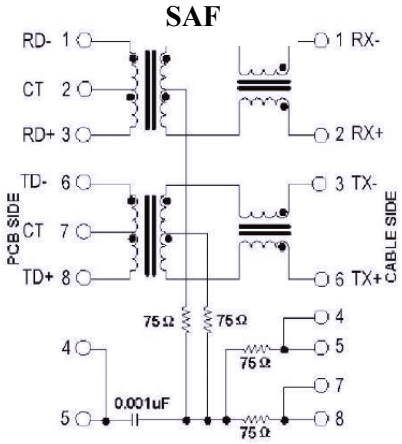
SAD



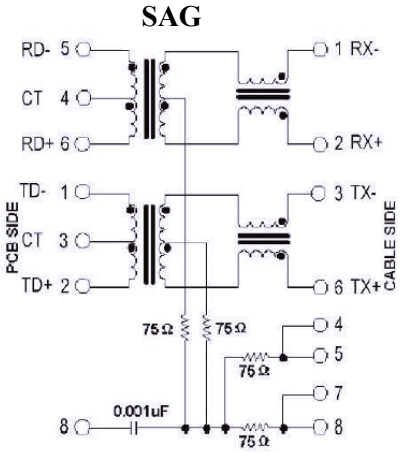
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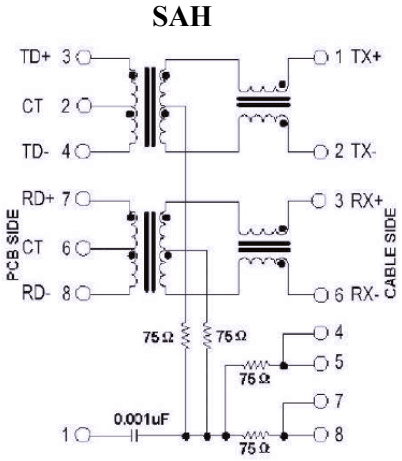
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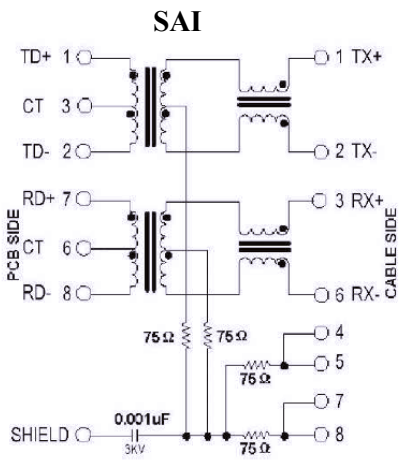
SAG



SAH



SAI



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ARJ11B Series

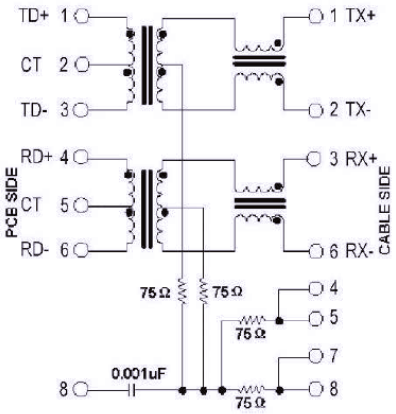
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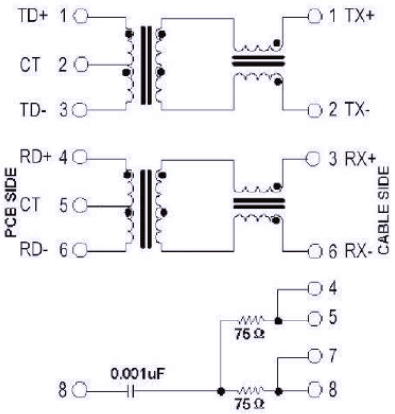
16.26 x 13.84 x 21.59mm
ROHS/ROHS II COMPLIANT
MSL Level = N/A

Schematics

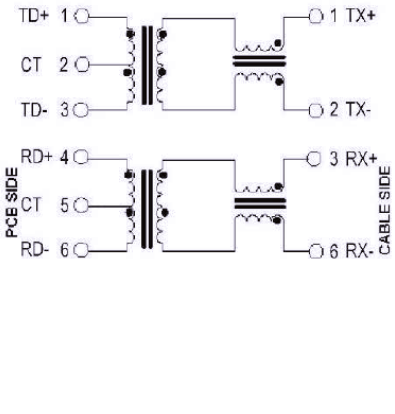
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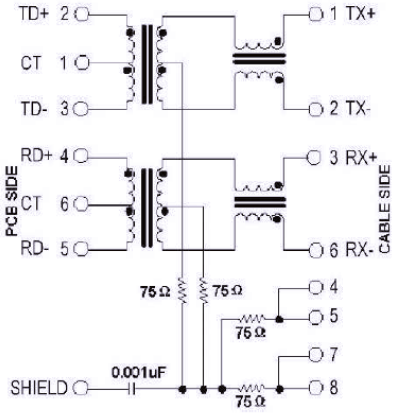
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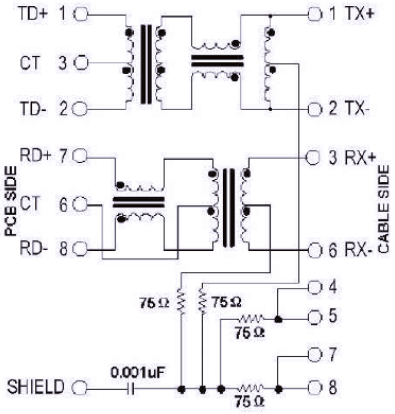
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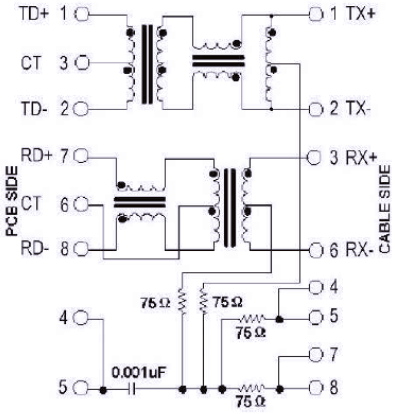
SAM



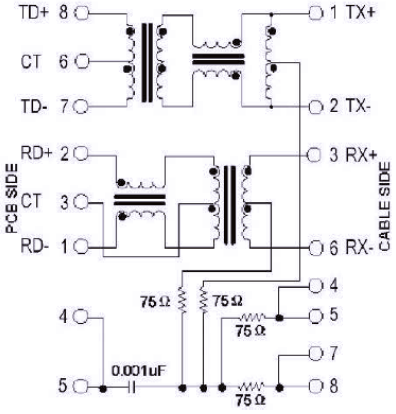
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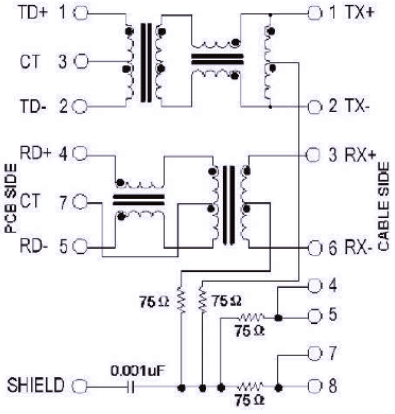
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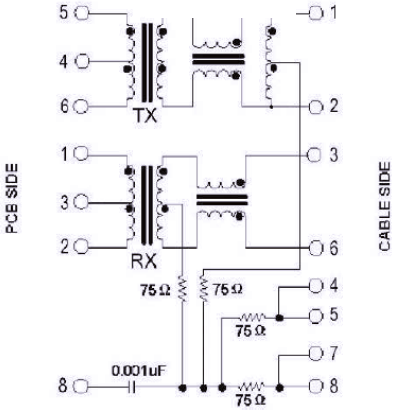
SAP



SAQ



SAR



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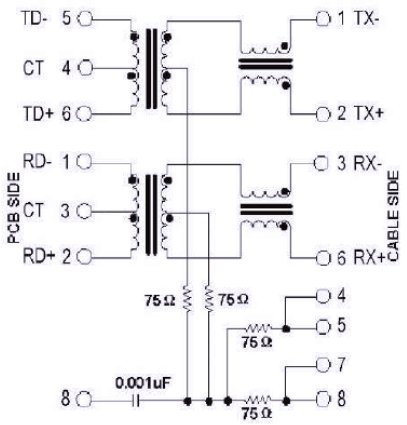
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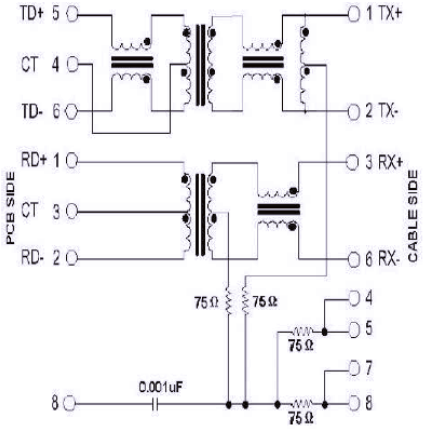
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MSL Level = N/A

Schematics

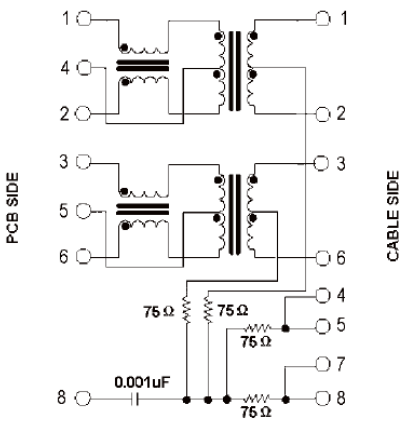
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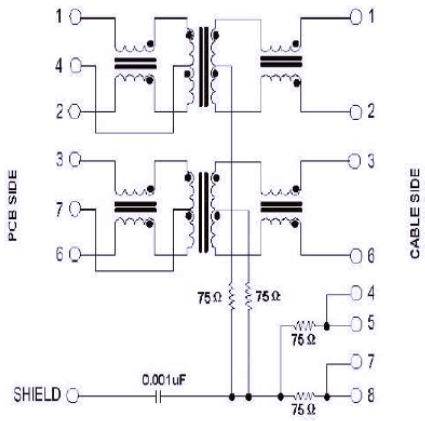
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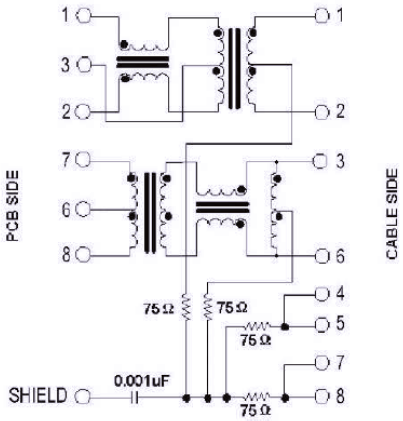
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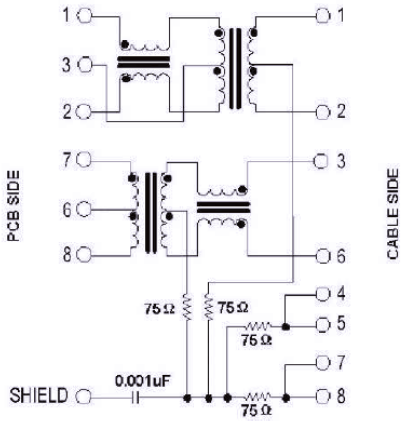
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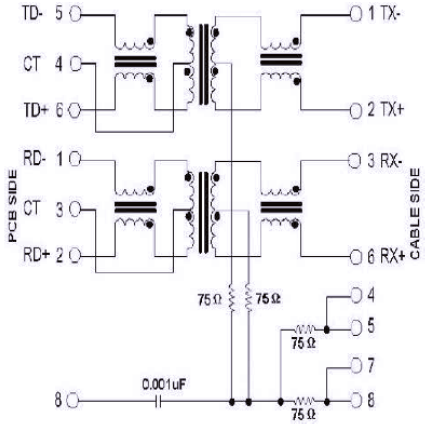
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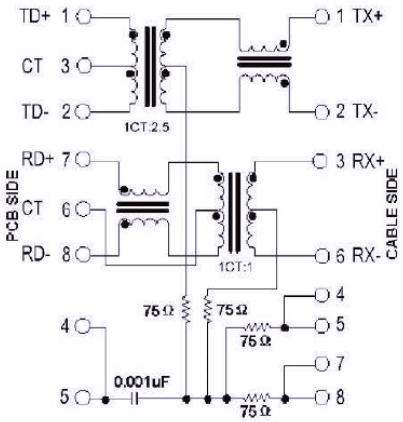
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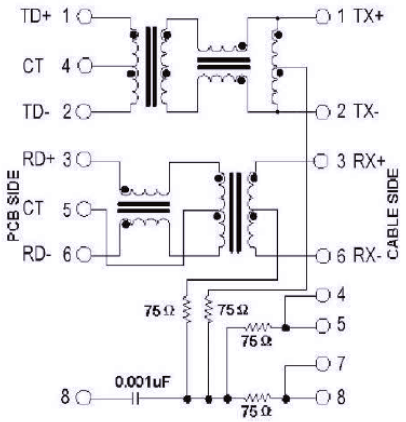
SAY



SAZ



SBA



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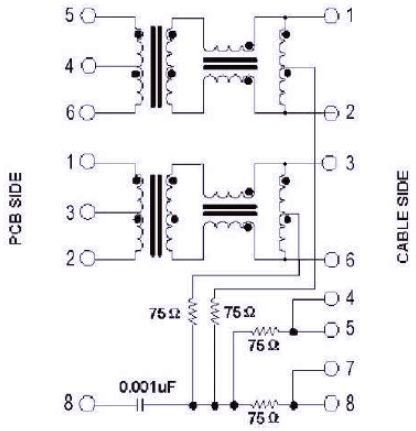
Request Samples

Check Inventory

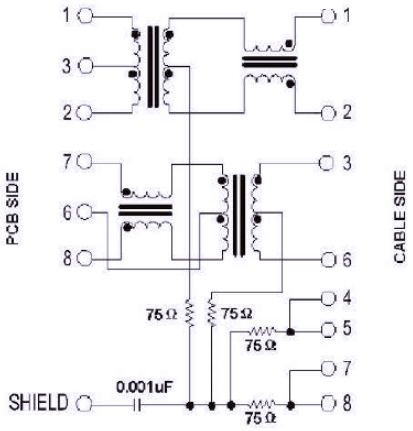
16.26 x 13.84 x 21.59mm
ROHS/ROHS II COMPLIANT
MSL Level = N/A

Schematics

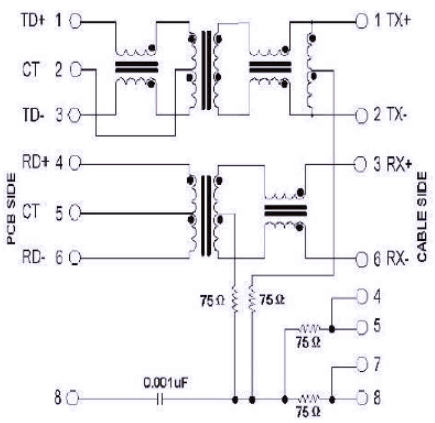
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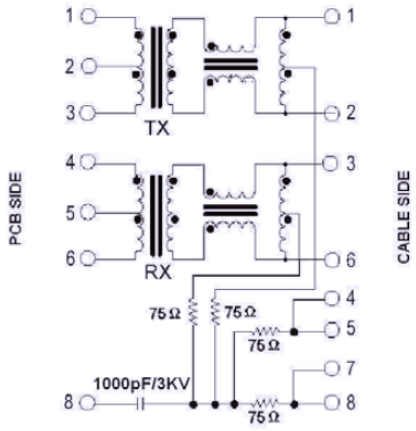
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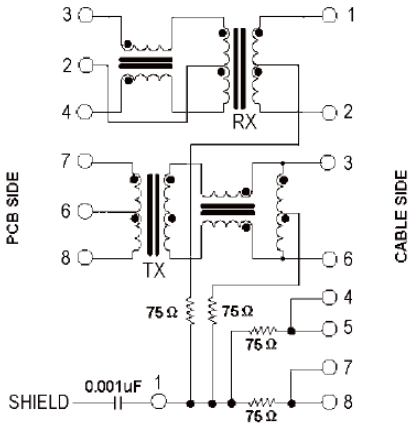
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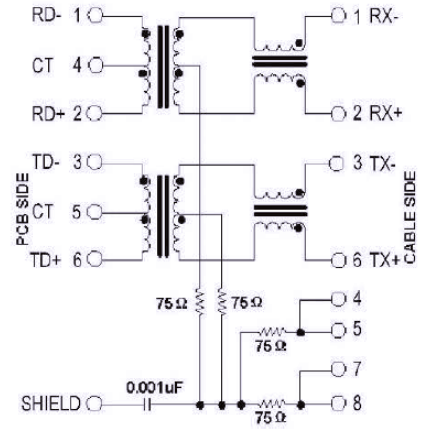
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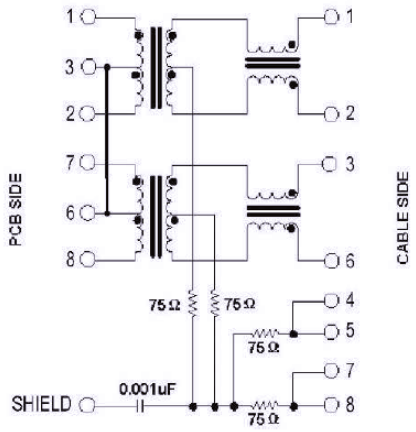
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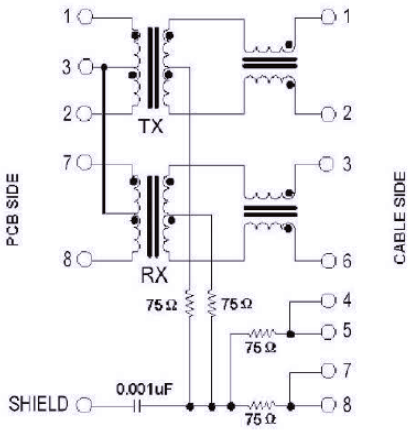
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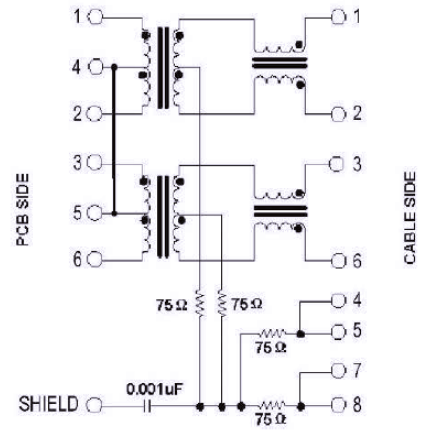
SBH



SBI



SBJ



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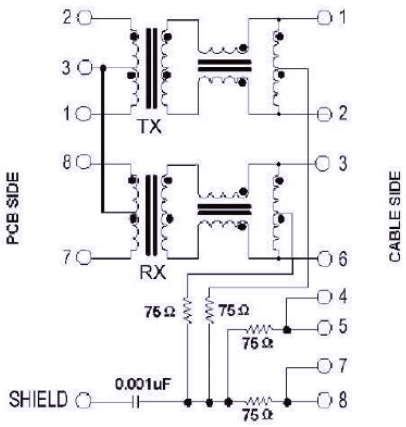
Request Samples

Check Inventory

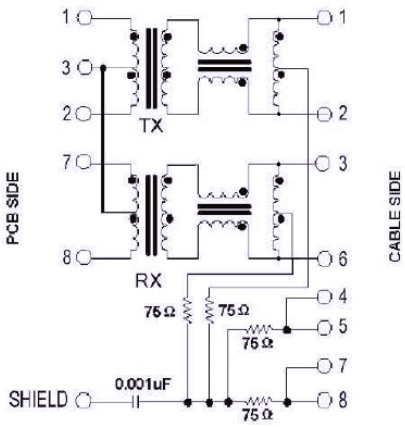
16.26 x 13.84 x 21.59mm
ROHS/ROHS II COMPLIANT
MSL Level = N/A

Schematics

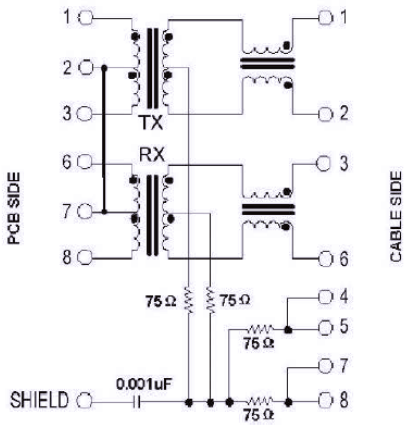
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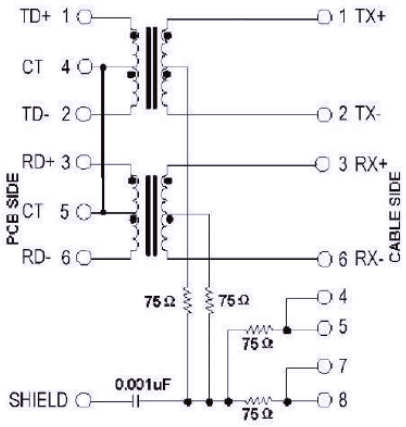
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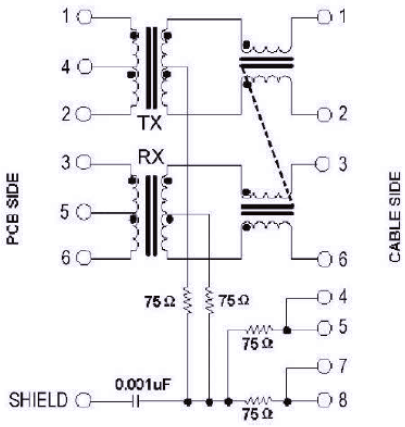
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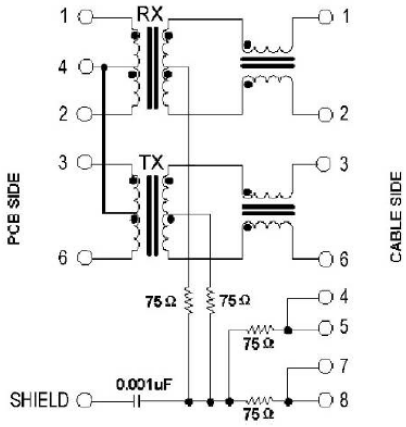
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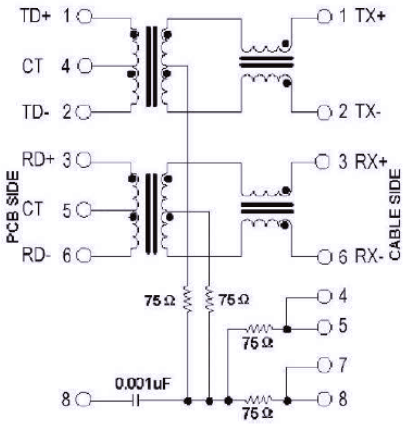
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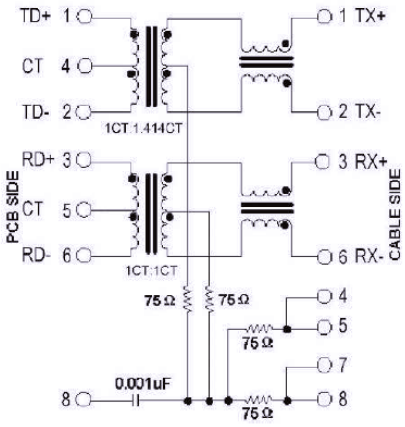
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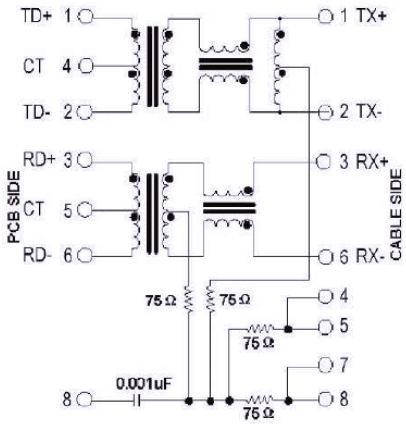
SBQ



SBR



SBS



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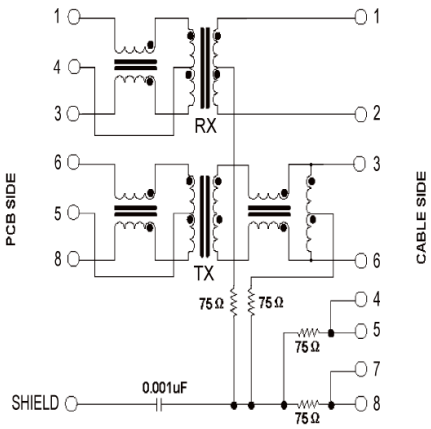
Request Samples

Check Inventory

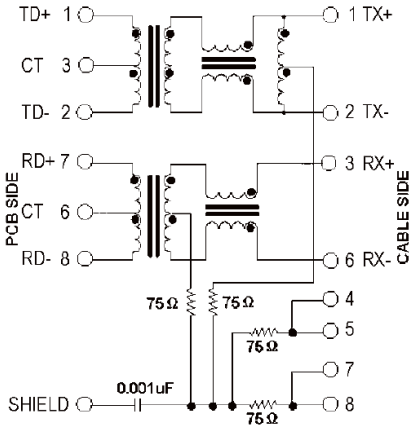
16.26 x 13.84 x 21.59mm
ROHS/ROHS II COMPLIANT
MSL Level = N/A

Schematics

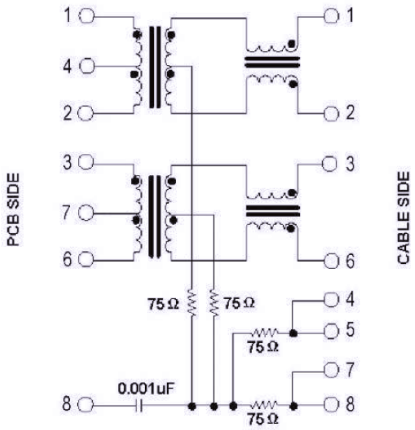
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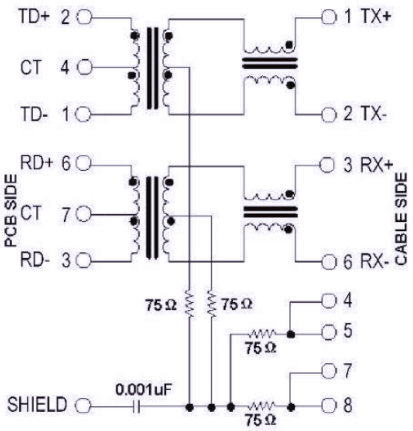
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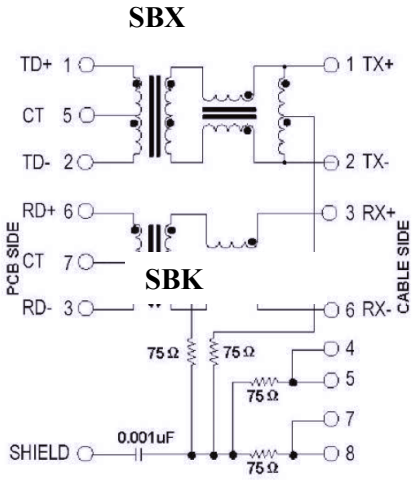
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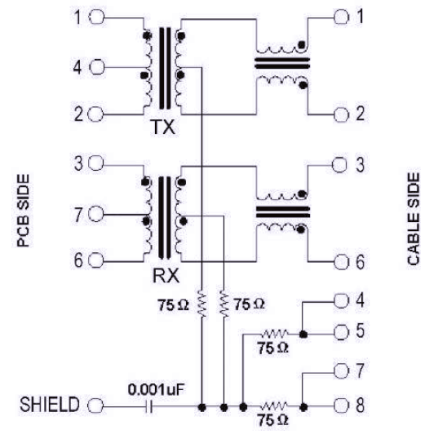
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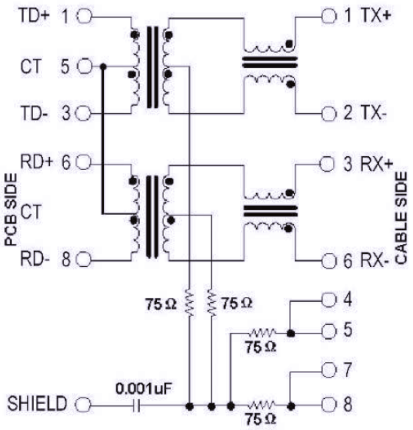
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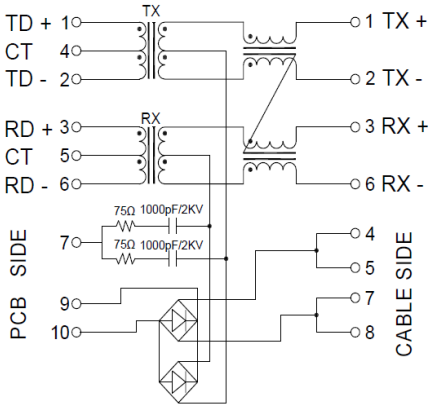
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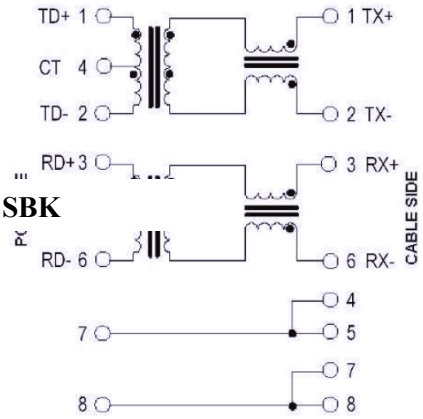
SBZ



SCA



SCB



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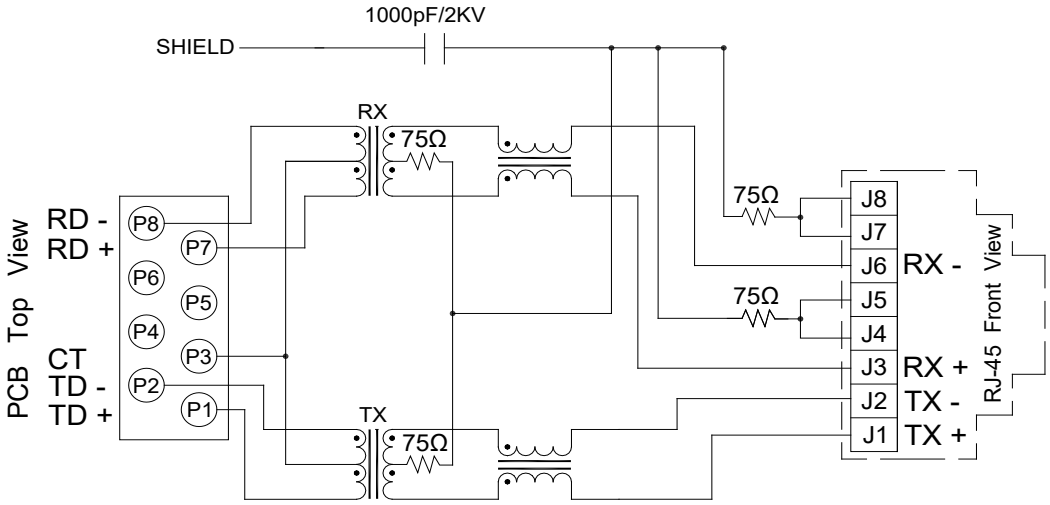
Request Samples

Check Inventory

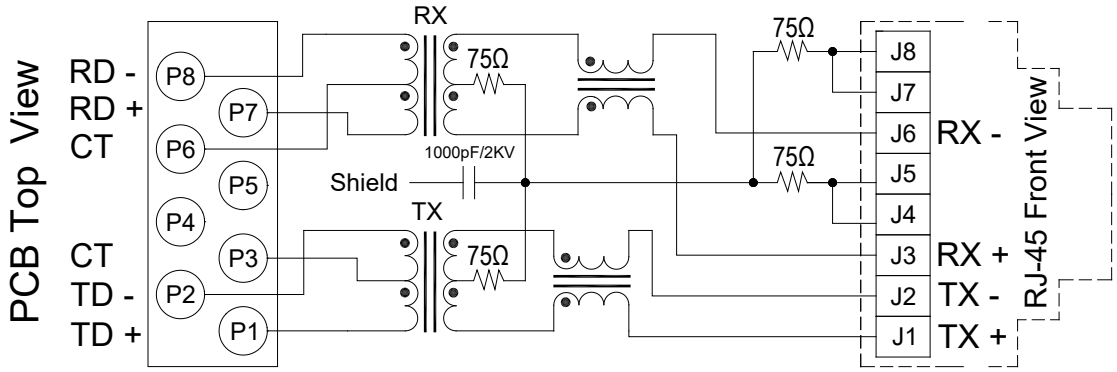
16.26 x 13.84 x 21.59mm
ROHS/ROHS II COMPLIANT
MSL Level = N/A

Schematics

SCC



SCD



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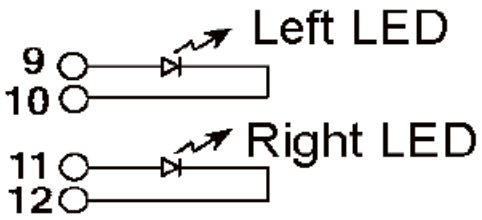
Request Samples

Check Inventory

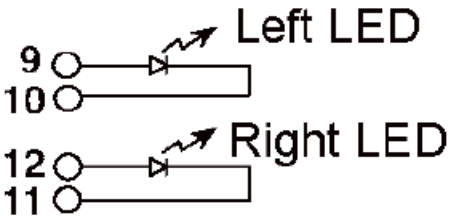
16.26 x 13.84 x 21.59mm
ROHS/ROHS II COMPLIANT
MSL Level = N/A

LED polarity

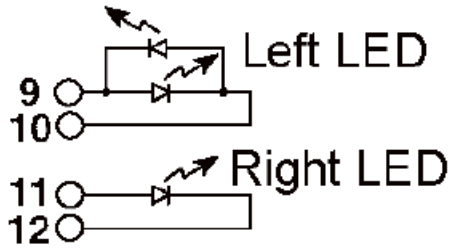
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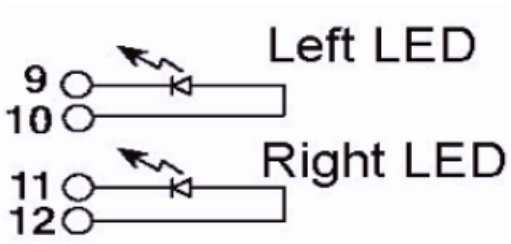
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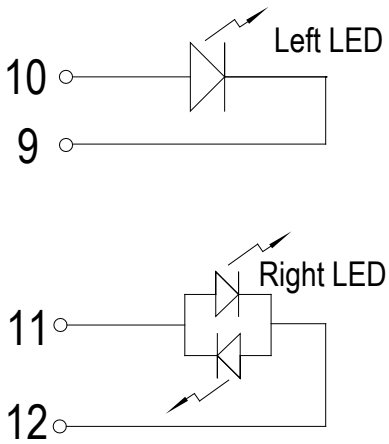
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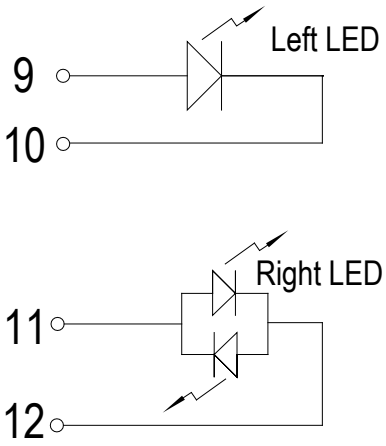
H



I



J



Vin=2.1Vdc TYP. **2.5Vdc MAX.**

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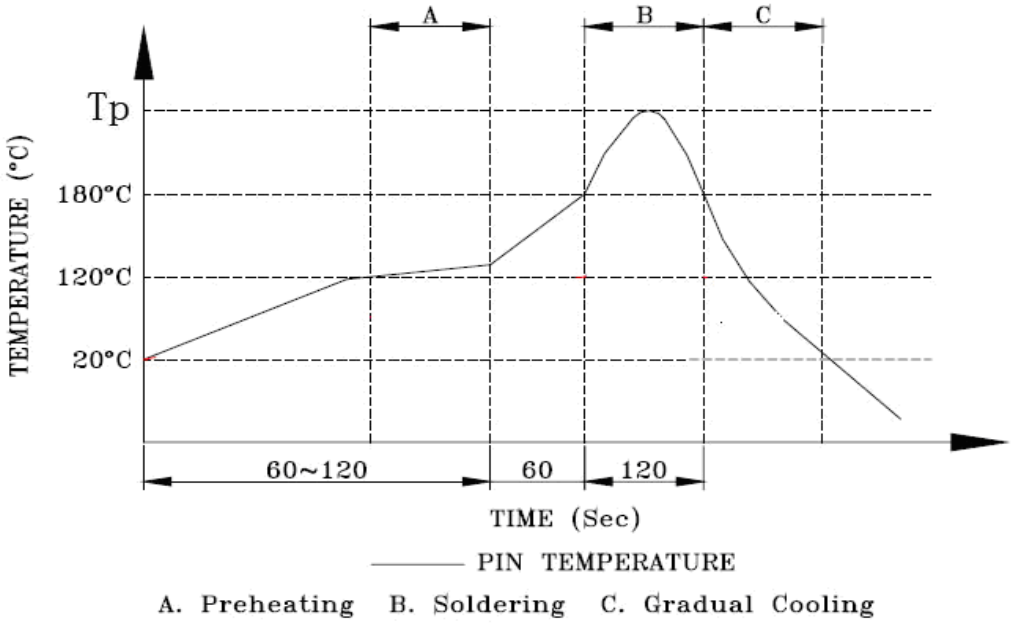
ARJ11B Series

Request Samples

Check Inventory

16.26 x 13.84 x 21.59mm
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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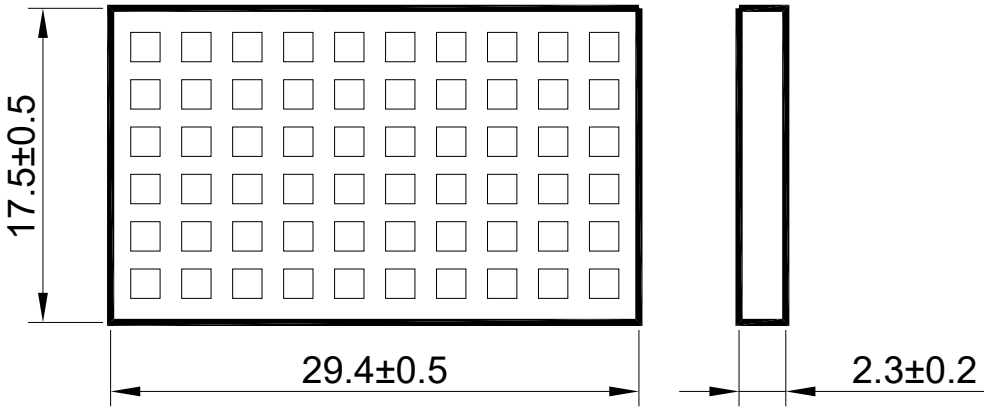
Request Samples

Check Inventory

16.26 x 13.84 x 21.59mm
ROHS/ROHS II COMPLIANT
MSL Level = N/A

Packaging

60 pcs/tray
Packaging material: PET



Dimensions: mm

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