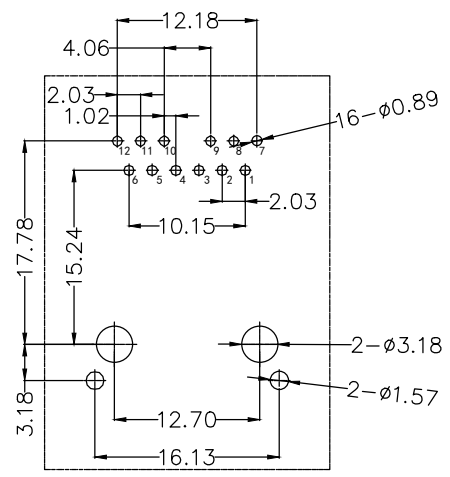


Date Code



Recommended P.C. Board Layout
General tolerances: ± 0.05

SPECIFICATION

Electrical Performance

Current Rating: 1.5A AC(rms)/DC
Voltage Rating: 125V AC(rms)/DC
Contact Resistance: 30m Ω Max
Insulation Resistance: 500M Ω MIN
Withstanding Voltage: 1000V AC r.m.s
Temperature Range—Operating: -40°C~+85°C

Material and Plating

Housing: PBT, (UL 94V-0)
Terminal: Phosphor Bronze/Selective gold plated on contact area and matte tin plated on tails area
Shield: Copper alloy/Nickel plating

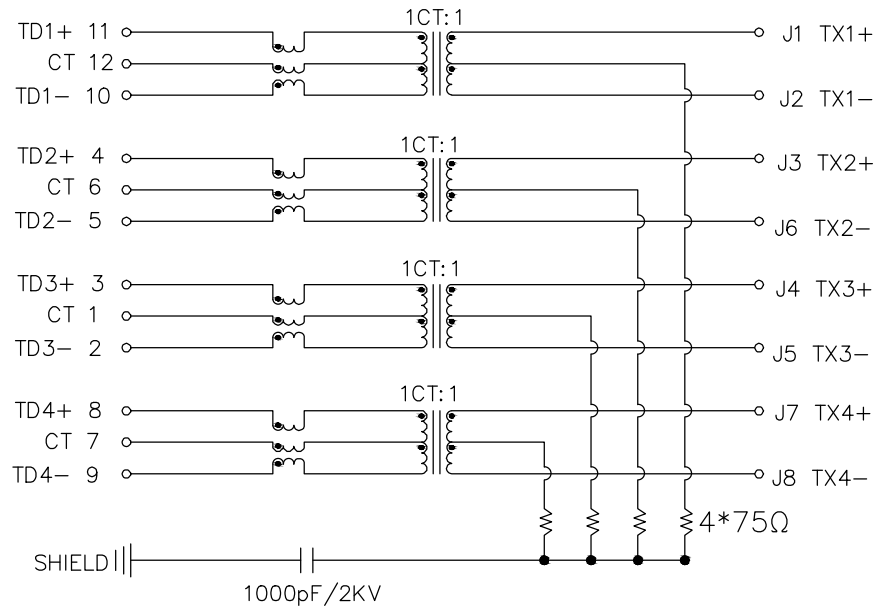
Ordering Information

FRJ45 261 — 1 7 XX BK K 0 1 0 2
1 2 3 4 5 6 7 8 9

1	<u>Category</u> FRJ45—RJ45 Connector	2	<u>Distinction No.</u> 261	3	<u>Ports options</u> 1—1 Ports	4	<u>Plating</u> 7—Selective gold plated on contact area and matte tin plated on tails area		
5	<u>thickness of Gold Plating</u> 06—0.15μm	6	<u>Color—Resin</u> BK—Black	7	<u>Packaging</u> K—Tray	8	<u>Contact type</u> 1—Square pin	9	<u>Pin circuits</u> 2—1000Base—T

 THIRD ANGLE PROJECTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY LEO	DATE 21/JUN/24	PART NO. FRJ45261-17XXBKK0102	ITEM NO. FRJ45261	 Building Technology Cornerstone	
		X. ±0.30	X.* ±5°	CHECKED BY	DATE	TITLE RJ45 Connector 12P8C Angle(90°)(1000Base-T)			
DESIGN UNITS mm		XX ±0.20	XX.* ±2°	GISELLE	21/JUN/24			REV 0	
		XXX ±0.15	XXX.* ±1°	DRAWN BY	DATE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
SCALE 5:1	SIZE A4	XXX ±0.10	XXX.* ±0.5°	HJP	21/JUN/24				

PCB Side to PHY



Cable Side

Electrical;
Turn ratio: 11~10: J1~J2=1CT:1CT($\pm 2\%$).
4~5: J3~J6=1CT:1CT($\pm 2\%$).
3~2: J4~J5=1CT:1CT($\pm 2\%$).
8~9: J7~J8=1CT:1CT($\pm 2\%$).
OCL: 350uH Min.at 100KHz 100mV 8mA DC.
Insertion Loss: -1.0 dB Max 1~100MHz.
Return loss: -18 dB Min 1~30MHz;
 -16 dB Min 30~60MHz.
 -12 dB Min 60~80MHz.
 -10 dB Min 80~100MHz.
Cross talk: -40 dB Min 1~30MHz;
 -35 dB Min 30~60MHz;
 -30 dB Min 60~100MHz;
CMR: -30 dB Min 1~100MHz;
Hi-Pot: 1500V AC&2250V DC 6S 1mA PRI TO SEC

 THIRD ANGLE PROJECTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY LEO	DATE 21/JUN/24	PART NO. FRJ45261-17XXBKK0102	ITEM NO. FRJ45261	 Building Technology Cornerstone	
		X. ± 0.30	X.* $\pm 5^\circ$	CHECKED BY GISELLE	DATE 21/JUN/24	TITLE RJ45 Connector 12P8C Angle(90°)(1000Base-T)			
DESIGN UNITS mm		X.X ± 0.20	X.X* $\pm 2^\circ$	DRAWN BY HJP	DATE 21/JUN/24			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
SCALE 5:1	SIZE A4	X.XX ± 0.15	X.XX* $\pm 1^\circ$						
		X.XXX ± 0.10	X.XXX* $\pm 0.5^\circ$						

