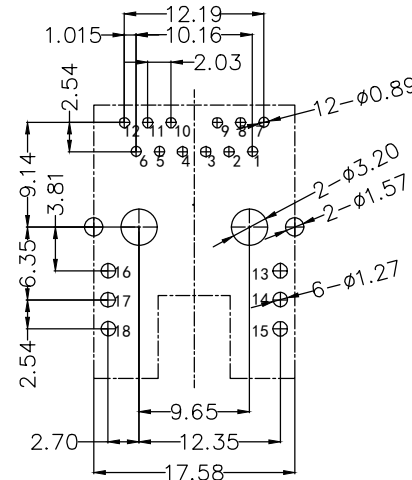
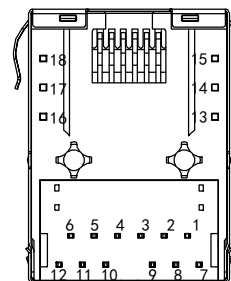
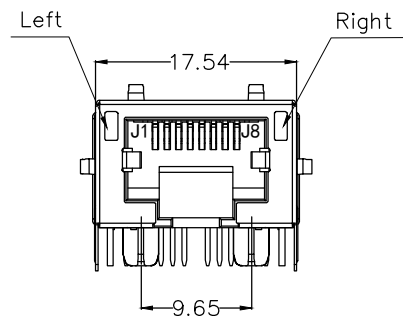
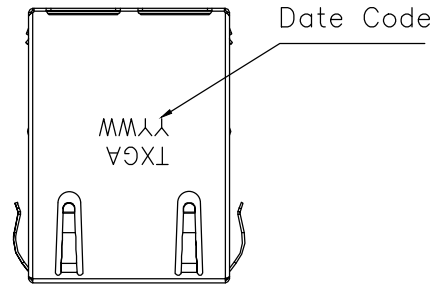
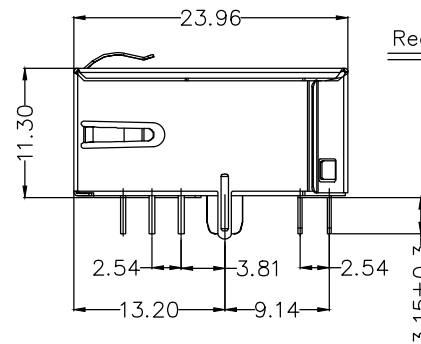


1 2 3 4 5 6 7 8

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD



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: 30mΩ Max

Insulation Resistance: 500MΩ MIN

Withstanding Voltage:1000V AC r.m.s

Temperature Range—Operating: -40°C~+85°C

Material and Plating

Housing:LCP, (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 258 — 1 7 XX BK K 9 1 0 2
1 2 3 4 5 6 7 8 9 10

1	Category FRJ45—RJ45 Connector	2	Distinction No. 258	3	Ports options 1—1 Ports	4	Plating 7—Selective gold plated on contact area and matte tin plated on tails area	5	thickness of Gold Plating 30—0.75μm
6	Color—Resin BK—Black	7	Packaging K—Tray	8	LED style 9—L: Yellow/Green R: Yellow/Green	9	Contact type 1—Square pin	10	Pin circuits 2—1000Base-T

 THIRD ANGLE PROJECTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY LEO	DATE 17/JUN/24	PART NO. FRJ45258-17XXBKK9102	ITEM NO. FRJ45258	 Building Technology Cornerstone	
		X. ±0.30	X.* ±5°	CHECKED BY	DATE	TITLE RJ45 Connector 12P8C Angle(90°)(1000Base-T)			
DESIGN UNITS METRIC(mm)		X.X ±0.20	X.X* ±2°	GISELLE	17/JUN/24				
SCALE 5:1	SIZE A4	X.XX ±0.15	X.XX* ±1°	DRAWN BY HJP	DATE 17/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			
		X.XXX ±0.10	X.XXX* ±0.5°						

1 2 3 4 5 6 7 8

1

2

3

4

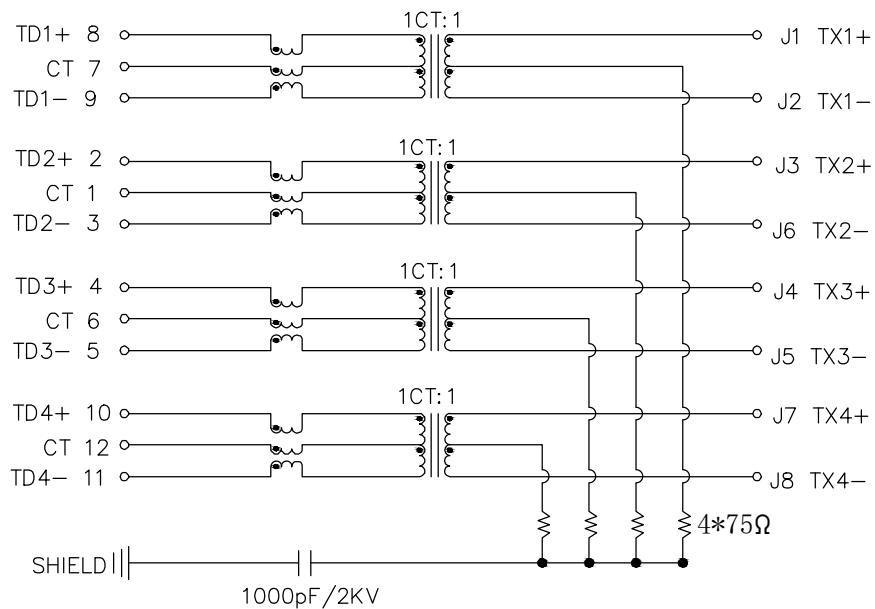
5

6

7

8

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

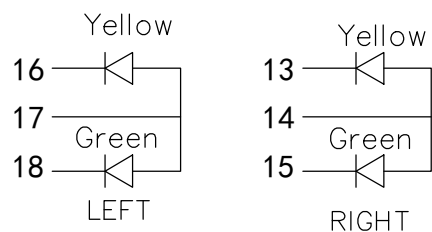


Cable Side

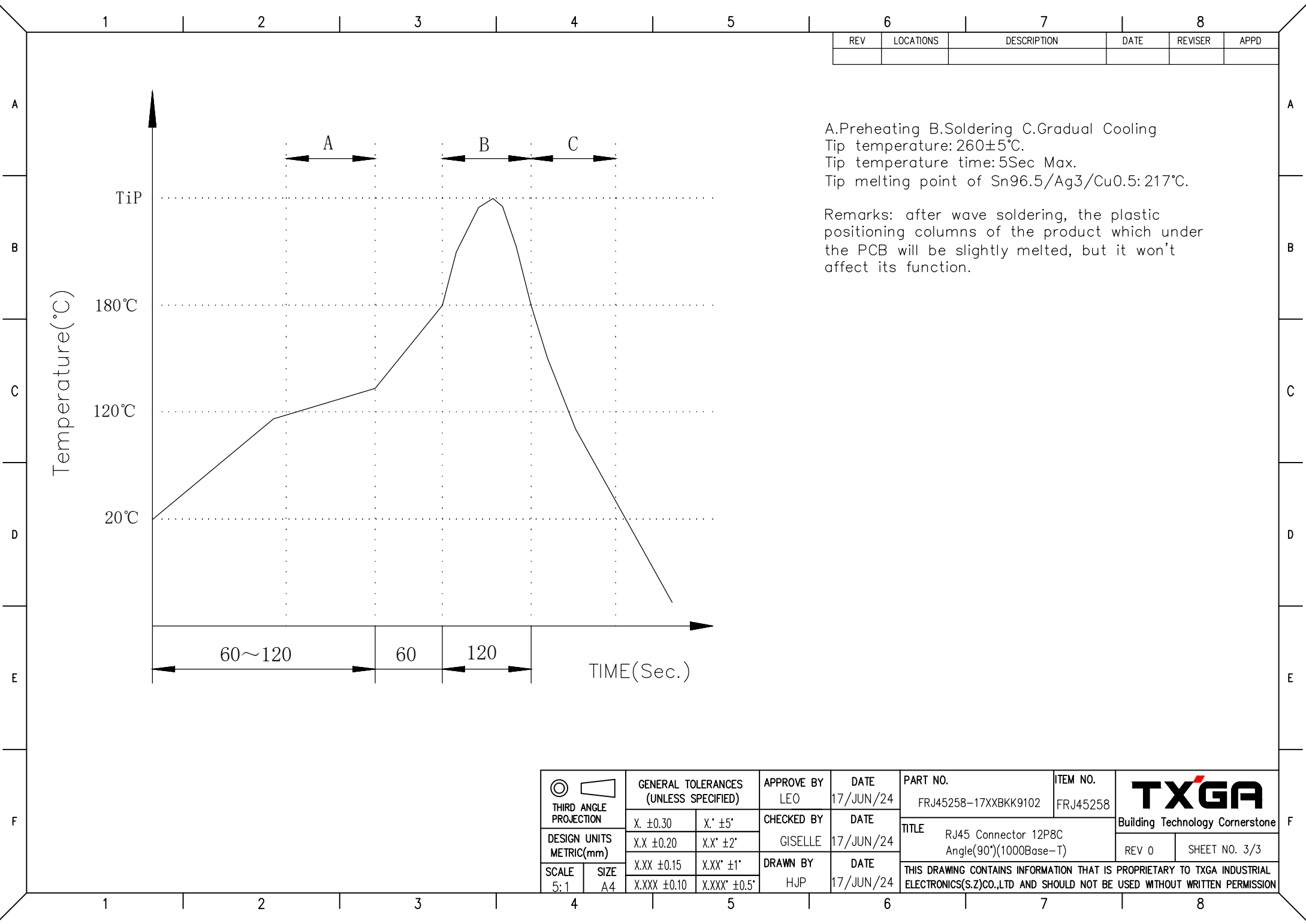
Electrical;
Turn ratio: 8~9: J1~J2=1CT:1CT(±2%).
2~3: J3~J6=1CT:1CT(±2%).
4~5: J4~J5=1CT:1CT(±2%).
10~11: J7~J8=1CT:1CT(±2%).
OCL: 350uH Min.at 100KHz 100mV 8mA DC.
Insertion Loss: -1.0 dB Max 1~100MHz.
Return loss: -18dB Min 1~30MHz;
-14dB Min 30~60MHz.
-12dB Min 60~80MHz.
-10dB Min 80~100MHz.
Cross talk: -40dB Min 1~30MHz;
-35dB Min 30~60MHz;
-30dB Min 60~100MHz;
CMR: -30dB Min 1~100MHz;
Hi-Pot: 1500V AC&2250V DC 6S 1mA PRI TO SEC

LED Specification

Standard LED Color	LED Wavelength	Foward(A)	Foward(V)
Green	568nm	20mA	2.2-2.4V
Yellow	585nm	20mA	2.1-2.5V



 THIRD ANGLE PROJECTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY LEO	DATE 17/JUN/24	PART NO. FRJ45258-17XXBKK9102	ITEM NO. FRJ45258	 Building Technology Cornerstone	
DESIGN UNITS METRIC(mm)		X. ±0.30	X.* ±5°	CHECKED BY	DATE	TITLE RJ45 Connector 12P8C Angle(90°)(1000Base-T)		REV 0	SHEET NO. 2/3
		X.X ±0.20	X.X* ±2°	GISELLE	17/JUN/24				
		X.XX ±0.15	X.XX* ±1°						
SCALE 5:1	SIZE A4	X.XXX ±0.10	X.XXX* ±0.5°	DRAWN BY HJP	DATE 17/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			



REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

A.Preheating B.Soldering C.Gradual Cooling
Tip temperature:260±5°C.
Tip temperature time:5Sec Max.
Tip melting point of Sn96.5/Ag3/Cu0.5: 217°C.

Remarks: after wave soldering, the plastic positioning columns of the product which under the PCB will be slightly melted, but it won't affect its function.

 THIRD ANGLE PROJECTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY	DATE	PART NO.	ITEM NO.	 Building Technology Cornerstone		
				LEO	17/JUN/24	FRJ45258-17XXBKK9102	FRJ45258			
DESIGN UNITS METRIC(mm)		X. ±0.30	X.* ±5°	CHECKED BY	DATE	TITLE RJ45 Connector 12P8C Angle(90°)(1000Base-T)		REV 0		SHEET NO. 3/3
		X.X ±0.20	X.X* ±2°	GISELLE	17/JUN/24					
		X.XX ±0.15	X.XX* ±1°							
SCALE	SIZE	X.XXX ±0.10	X.XXX* ±0.5°	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				
5:1	A4			HJP	17/JUN/24					