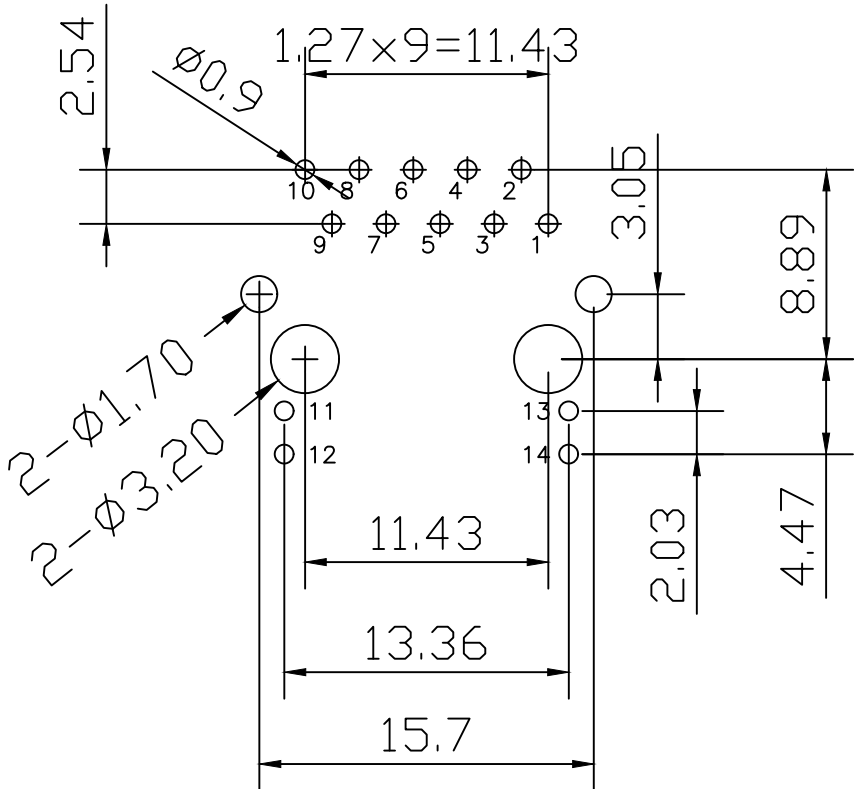
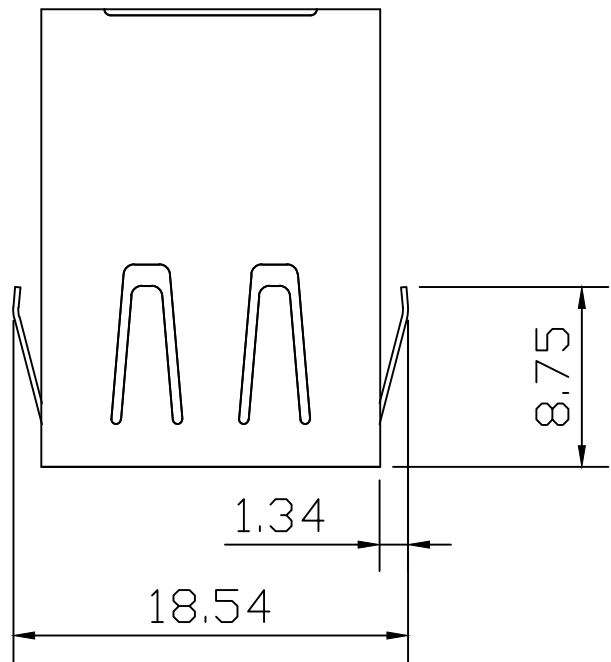
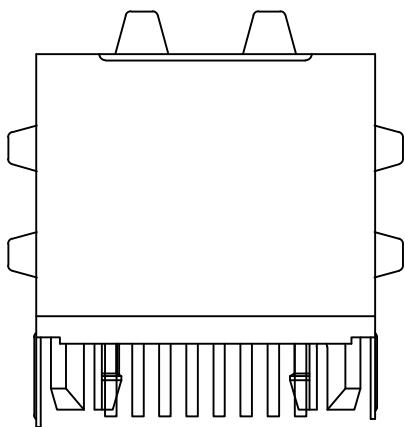
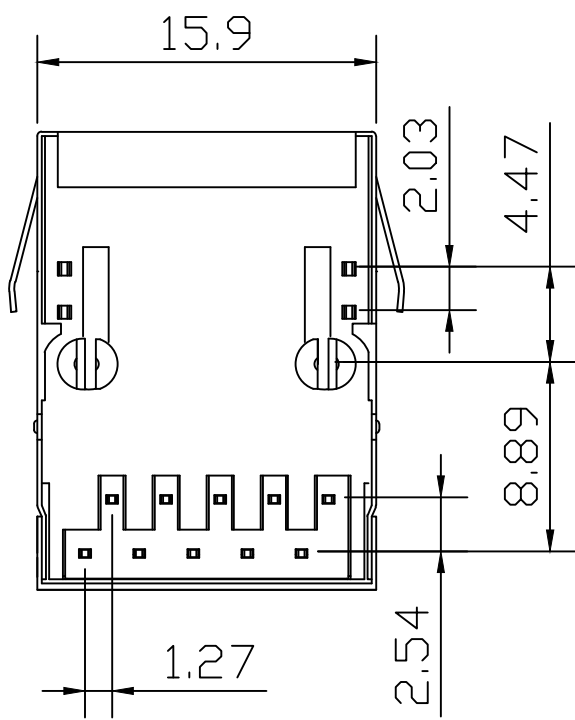
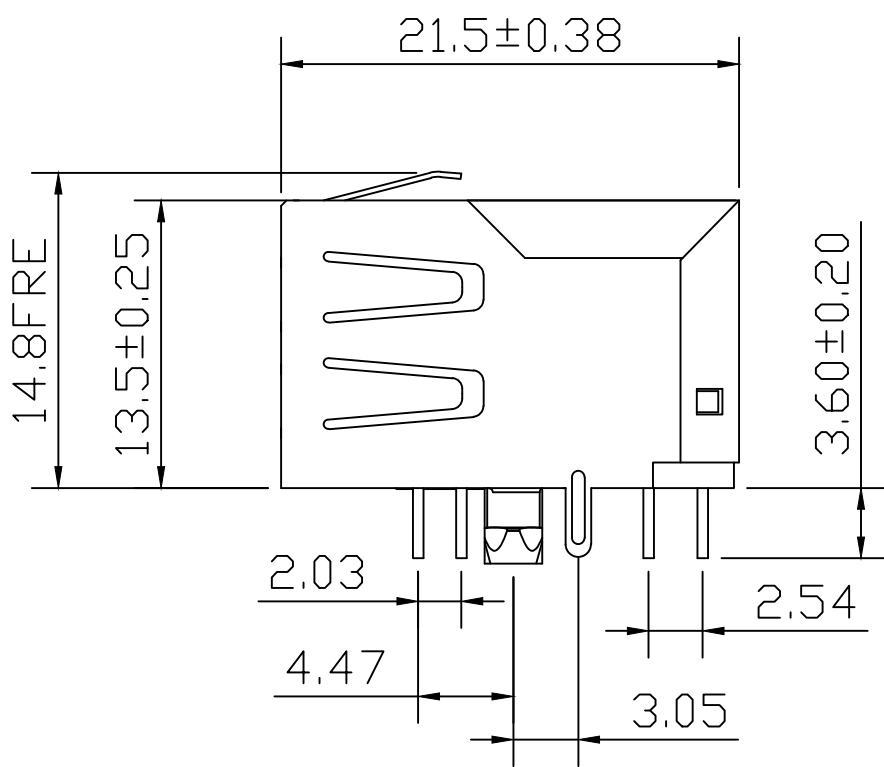
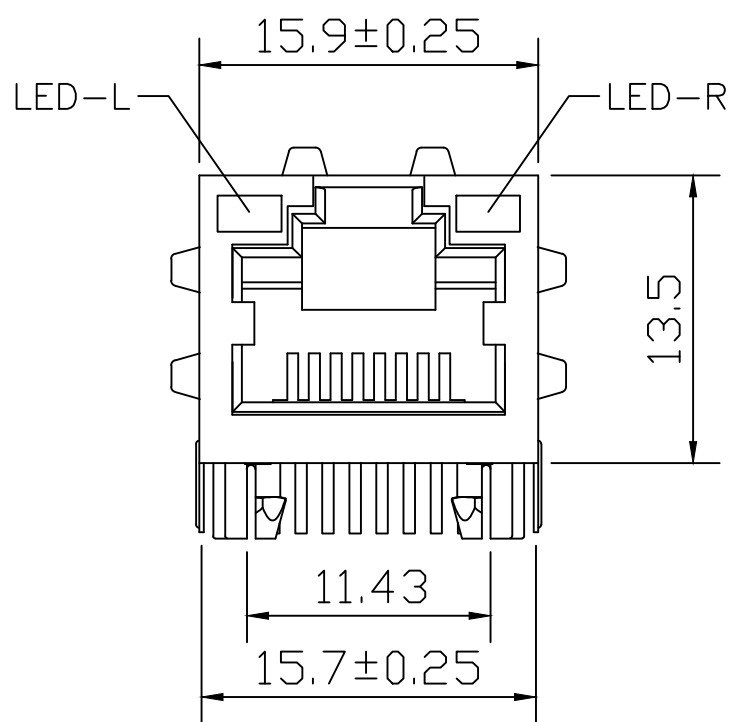


RoHS Compliant

Mechanical:

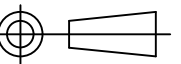


PCB Layout



NOTE:

- 1.Shielded - 0.20mm THICKNESS BRASS C2680 H.
PLATING NICKEL 20u"Min.
- 2.Housing- Standard Material Nylon66,Glass Filled
Polyester UL94V-0 Standed Color Black.
- 3.RJ Terminal- Plastic:Nylon66, UL94V-0,Standard Color Black.
Pin:0.35mm Thickness Phos-Bronze C5210 EH.
Plating:Nickel40u"~60u" for all and Sn 100%
,and Gold Plating.
- 4.Input Terminal- Nylon66,Glass Filled,UL94V-0,
Standard Color Black.
Pin:0.35mm SUS430.
Plating:Nickel40u"~60u" for all and Sn 100%.

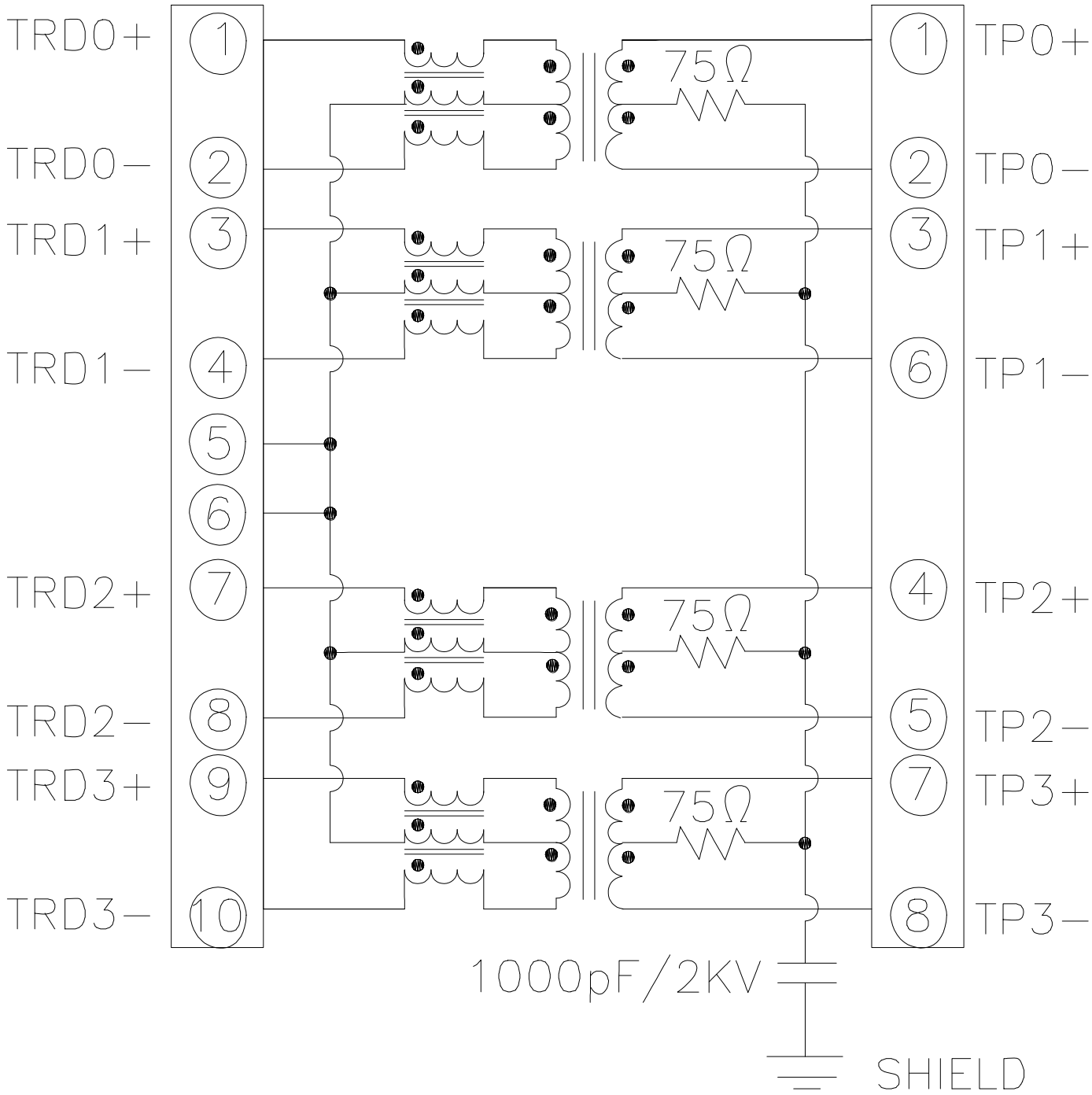
QC Inspection Item	DIMENSION IN mm [Inch]		ELLAX CORPORATION			
	TOLERANCE UNLESS OTHERWISE SPECIFIED		TITLE 1x1 Tab up 2.5G Base-T			
	.X± 0.38	X.°± 2.0°	DRAWING NUMBER 461EG2J4RA2			
	.XX± 0.20	.X°± 1.0°	DRAW KONGLEI 2018,10,04			
	.XXX± 0.10		PRD.J.  SHEET X OF Y SCALE 1:1 SIZE A3 REV P1			
APPROVE Corey 2018,10,04		CHECK Alen 2018,10,04				

RoHS Compliant

Schematic:

Type EG2

PCB SIDE



Code	RJ45 Plating			LED Code			
	Contact area	Solder tail	Under plating		Left LED +11, -12 -11, +12	Right LED +13, -14 -13, +14	
F	3u" gold	100u" Tin Min.	40u" Nickel Min.	A	Green	-	Yellow
1	6u" gold			B	Yellow	-	Green
2	15u" gold			C	Green	-	Green
3	30u" gold			D	-	Green	-
4	50u" gold			E	-	Yellow	-
				F	Yellow	-	Orange
				G	Orange	Green	Yellow
				L	Yellow	-	Green
				0	-	-	-

Part Number:

xxx xxx xx x x x

① ② ③ ④ ⑤ ⑥

① Series No.

② Transformer Type.

③ Shield Type.

④ R=Standard operation temp. (0℃ to +70℃)
H=Industrial operation temp. (-40℃ to +85℃)

⑤ LED Code:See left table.

⑥ RJ45 Plating

CABLE SIDE

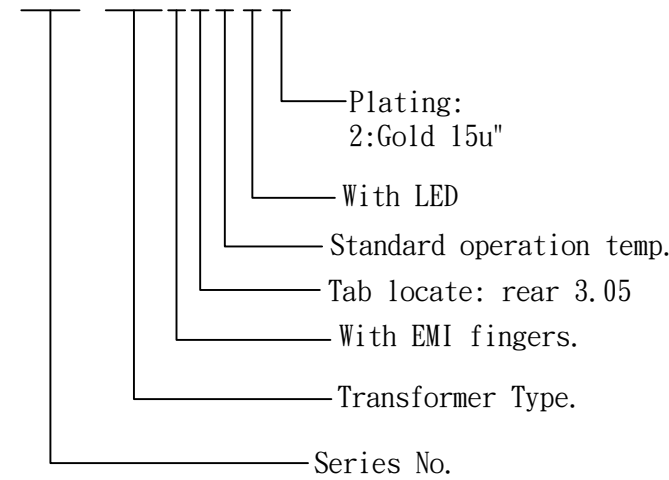
ELECTRICAL CHARACTERISTICS AT +25℃ UNLESS OTHER SPECIFIED
MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS	
OPERATING TEMPERATURE	0℃ TO +70℃	
URNS RATIO	1.00 ± 2%	
POLARITY	PER SCHEMATIC	
INSERTION LOSS (SDD21&SDD12)	1-50MHz	50-125MHz
	-0.5 dB MAX	-1.0 dB MAX
PHY-SIDE RETURN LOSS (SDD11-Zref=100 OHMS ± 1%)	1-40MHz	40-200MHz
	-20 dB MIN	-20+15*LOG ₁₀ (f/40) dB MIN
LINE-SIDE RETURN LOSS (SDD22-Zref=100 OHMS ± 1%)	1-40MHz	40-200MHz
	-20 dB MIN	-20+15*LOG ₁₀ (f/40) dB MIN
INDUCTANCE (OCL)	120 uH MIN @ 100KHz, 100mV	
CROSSTALK, ADJACENT CHANNELS (SDD21-ADJ.)	1-125MHz	
	-30 dB MIN	
COMMON MODE REJECTION RATIO (SCC21)	30-200MHz	
	-30 dB MIN	
COMM. TO DIFF REJECTION RATIO (SCC12)	10-125MHz	
	-45+f/35 dB MIN	
INPUT-OUTPUT ISOLATION	2250 VDC FOR 60 SECONDS	

NOTE: f IS FREQUENCY IN MHz.

Part Number:

461EG2J4RA2



QC Inspection Item	DIMENSION IN mm [Inch]		ELLAX CORPORATION			
	TOLERANCE UNLESS OTHERWISE SPECIFIED		TITLE			
	.X ± 0.38	X ° ± 2.0°	1x1 Tab up 2.5G Base-T			
	.XX ± 0.20	.X ° ± 1.0°	DRAWING NUMBER			
	.XXX ± 0.10		461EG2J4RA2			
	APPROVE	CHECK	DRAW	PROJ.	SHEET X OF Y	
Corey 2018,10,04	Alen 2018,10,04	KONGLEI 2018,10,04				
			SCALE 1:1	SIZE A3	REV P1	