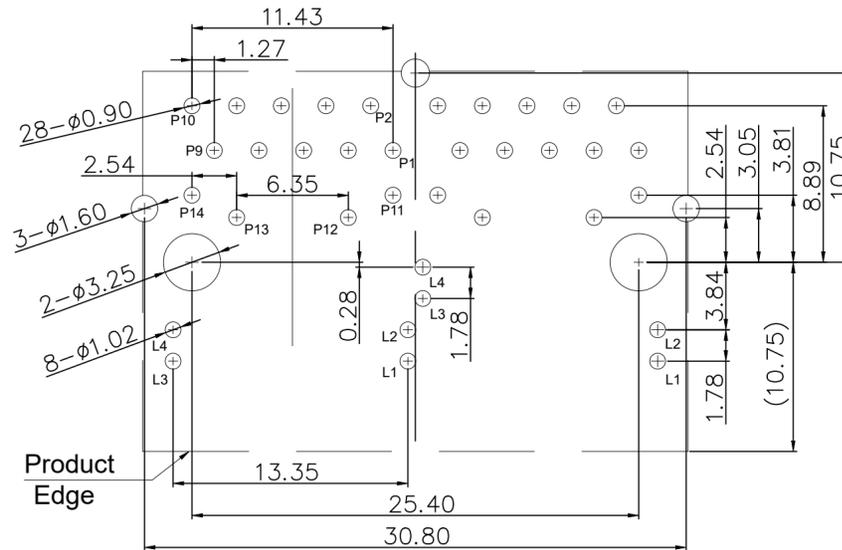
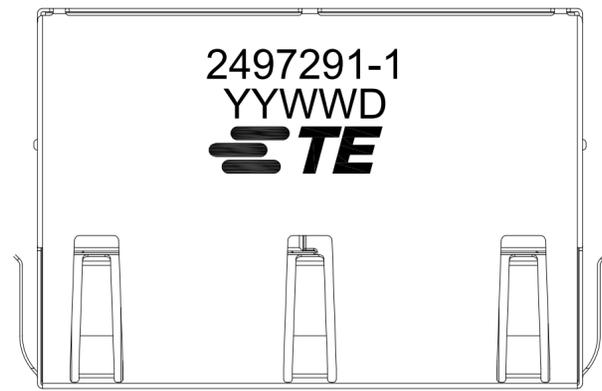


P	LTR	DESCRIPTION	DATE	DWN	APVD
A		REVISED PER ECN-25-336663	13AUG2025	TR	RK



Recommended PCB Layout  
Top View(T=1.60mm,Tol:±0.05)

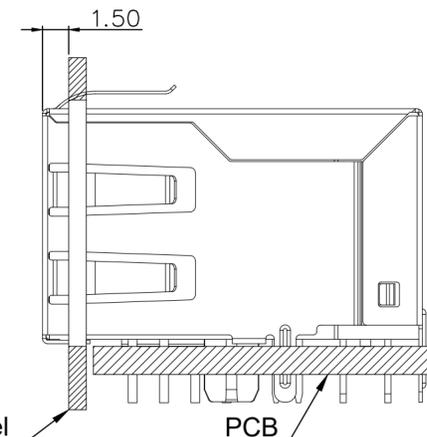
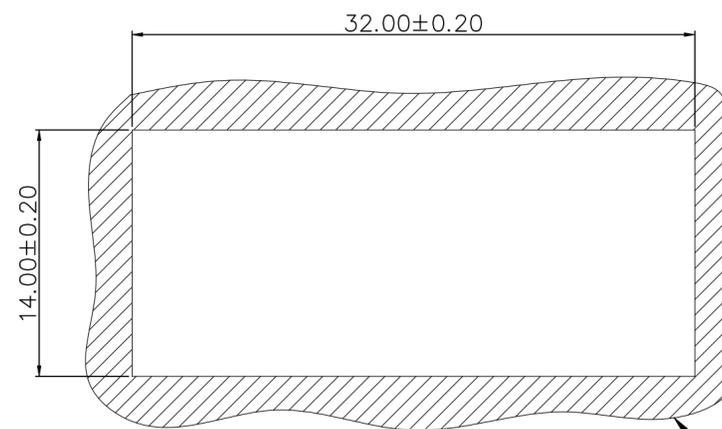
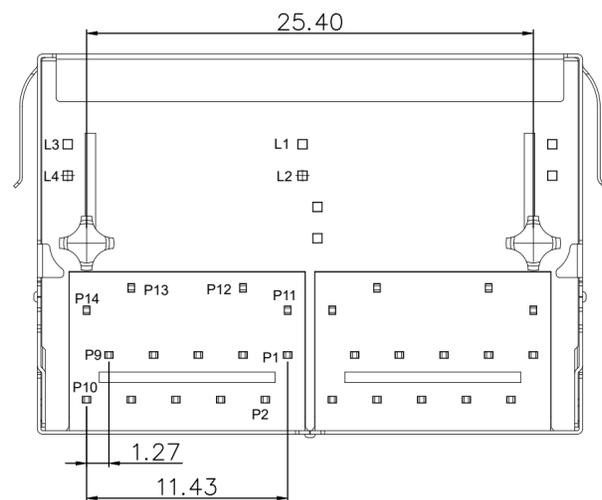
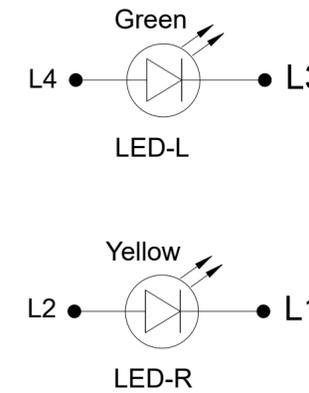
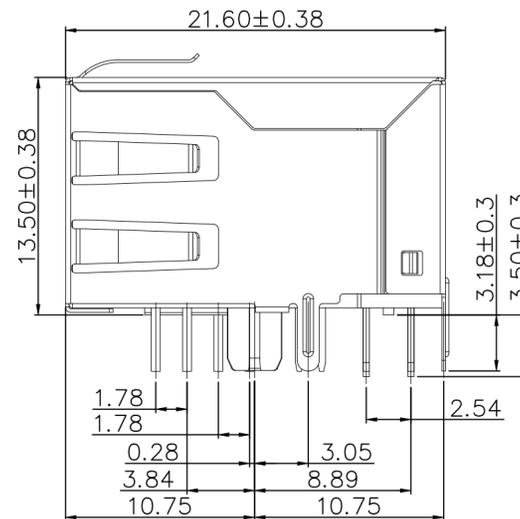
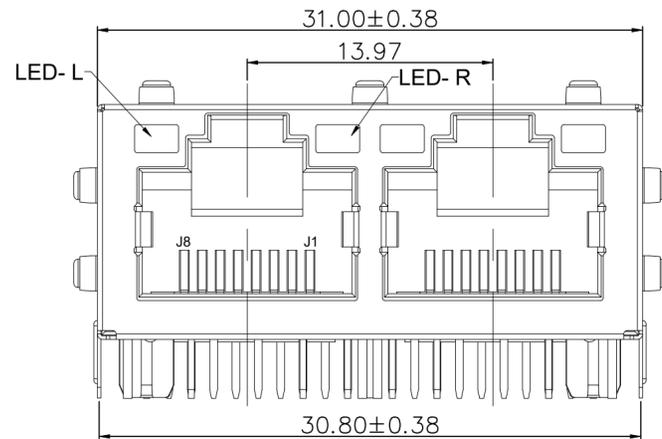
NOTE:

1. MATERIAL:

- 1.1 HOUSING: HIGH TEMPERATURE UL94V-0 BLACK
- 1.2 INSULATOR: HIGH TEMPERATURE UL94V-0 BLACK
- 1.3 CONTACT: PHOSPHOR BRONZE
- 1.4 SHELL: COPPER ALLOY

2. FINISH:

- 2.1 TERMINAL: CONTACT AREA PLATING GOLD 6u"
- 2.2 SHELL: PLATING Ni OVERALL



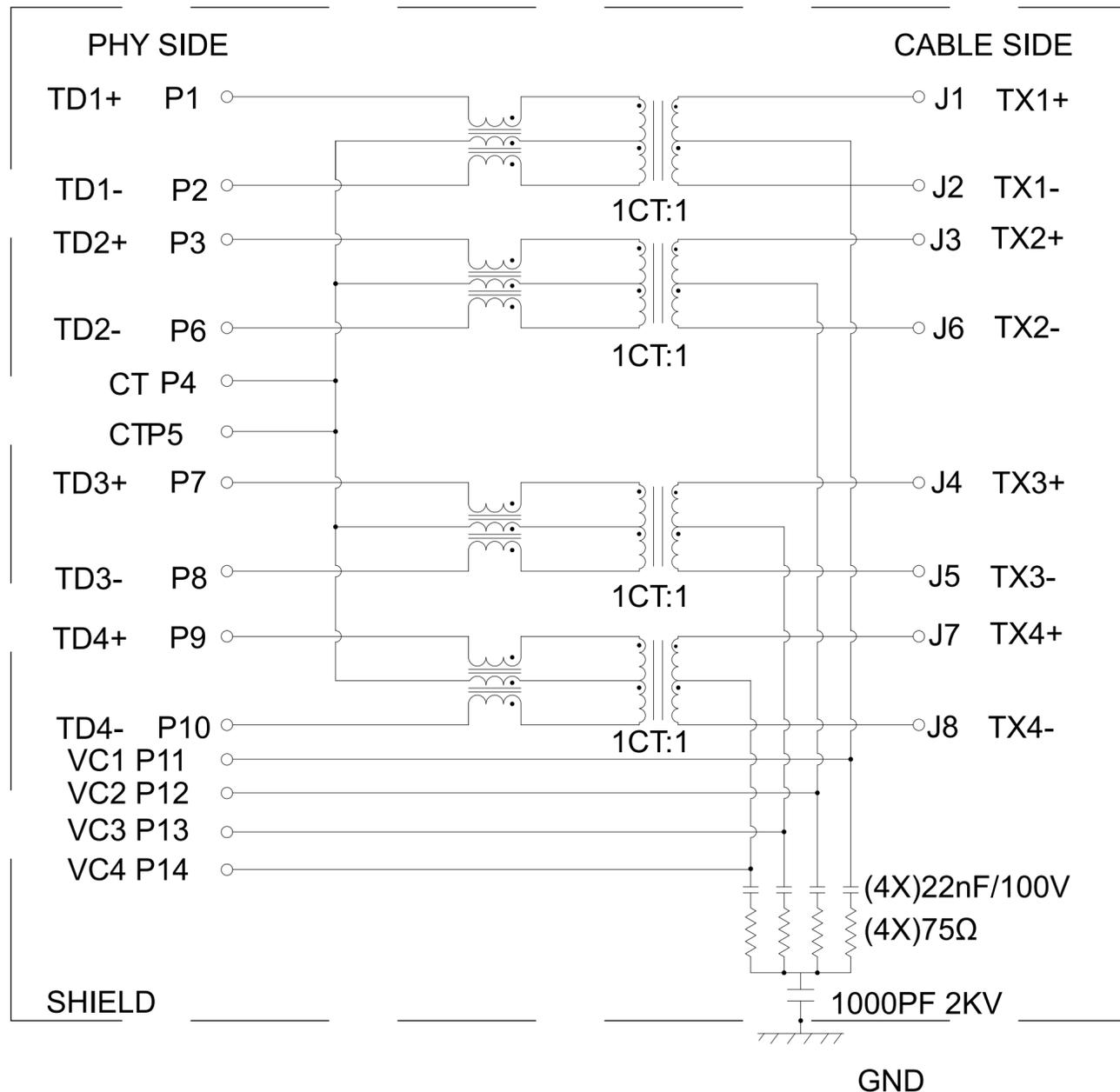
Recommended Panel Cutout

**2497291-1**  
**PART NUMBER**

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TARUN, R 06MAR2025	TE Connectivity																			
DIMENSIONS: mm [INCHES]		CHK RAMESH, KIVADER 06MAR2025																				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD RAGHAVAN, CG 06MAR2025	NAME RJ45 TAB UP 1x2 TYPE 5G+POE W/ LED&SHELL																			
<table border="1"> <tr><td>0 PLC</td><td>±</td><td>-</td></tr> <tr><td>1 PLC</td><td>±</td><td>0.35</td></tr> <tr><td>2 PLC</td><td>±</td><td>0.25</td></tr> <tr><td>3 PLC</td><td>±</td><td>0.15</td></tr> <tr><td>4 PLC</td><td>±</td><td>-</td></tr> <tr><td>ANGLES</td><td>-</td><td>± 2°</td></tr> </table>		0 PLC	±	-	1 PLC	±	0.35	2 PLC	±	0.25	3 PLC	±	0.15	4 PLC	±	-	ANGLES	-	± 2°	PRODUCT SPEC 108-161860	SIZE A2	CAGE CODE 00779
0 PLC	±	-																				
1 PLC	±	0.35																				
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3 PLC	±	0.15																				
4 PLC	±	-																				
ANGLES	-	± 2°																				
MATERIAL	FINISH	APPLICATION SPEC 114-161364	DRAWING NO C=2497291	RESTRICTED TO																		
		WEIGHT -	SCALE 1:1	SHEET 1 of 2																		
		CUSTOMER DRAWING	REV A																			

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
-	-	SEE SHEET 1	-	-	-

### SCHEMATICS (5G BASE)



### SPECIFICATIONS:

- 1.5G BASE-T Ethernet Application;
- Meets IEEE 802.3 & ANSI X 3.263 Standards;
- EU Rohs/ELV and GP Compliant,
- Reflow Soldering Temperature:  $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ ;  
Storage Temperature:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ ;
- Operation Temperature:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ ;  
Storage Temperature:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ ;
- Contact Resistance:  $30\text{m}\Omega$  Max.;
- Insertion Force With The Latch Depressed:  $30\text{N}$  Max. ;  
Removal Force With The Latch Depressed:  $30\text{N}$  Max. ;  
Durability: 750 Cycles;
- Transmitter Filter & Receiver Filter:  
Insertion Loss:  $1\sim 50\text{MHz}$   $-0.5\text{dB}$  Max. ;  
 $50\sim 125\text{MHz}$   $-1.0\text{dB}$  Max. ;  
 $125\sim 250\text{MHz}$   $-2.0\text{dB}$  Max. ;  
Return Loss:  $1\sim 40\text{MHz}$   $-20\text{dB}$  Min. ;  
 $40\sim 250\text{MHz}$   $-20+15*\log(\text{Freq MHz}/40\text{MHz})\text{dB}$  Min. ;
- Comm Mode Rejection: @ $30\sim 250\text{MHz}$   $-25\text{dB}$  Min. ;
- Cross Talk:  $1\sim 125\text{MHz}$   $-30\text{dB}$  Min. ;  
 $125\sim 250\text{MHz}$   $-18\text{dB}$  Min. ;
- Inductance: @ $100\text{KHz}$ ,  $0.1\text{V}$ ,  $180\text{uH}$  Min. ;
- HiPot Test: Input To Output:  $1500\text{Vrms}$  Min;
- DC current/Voltage rating-PSE pins:  $600\text{mA}$  Max@ $57\text{VDC}$ (Continuous)

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TARUN, R 06MAR2025		
DIMENSIONS: mm [INCHES]		CHK RAMESH, KIVADER 06MAR2025		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD RAGHAVAN, CG 06MAR2025	NAME RJ45 TAB UP 1x2 TYPE 5G+POE W/ LED&SHELL	
0 PLC ± - 1 PLC ± 0.35 2 PLC ± 0.25 3 PLC ± 0.15 4 PLC ± - ANGLES ± 2°		PRODUCT SPEC 108-161860	SIZE A2	CAGE CODE 00779
MATERIAL		APPLICATION SPEC 114-161364	DRAWING NO C=2497291	RESTRICTED TO
FINISH		WEIGHT	SCALE 1:1	SHEET 2 OF 2
		CUSTOMER DRAWING	REV A	