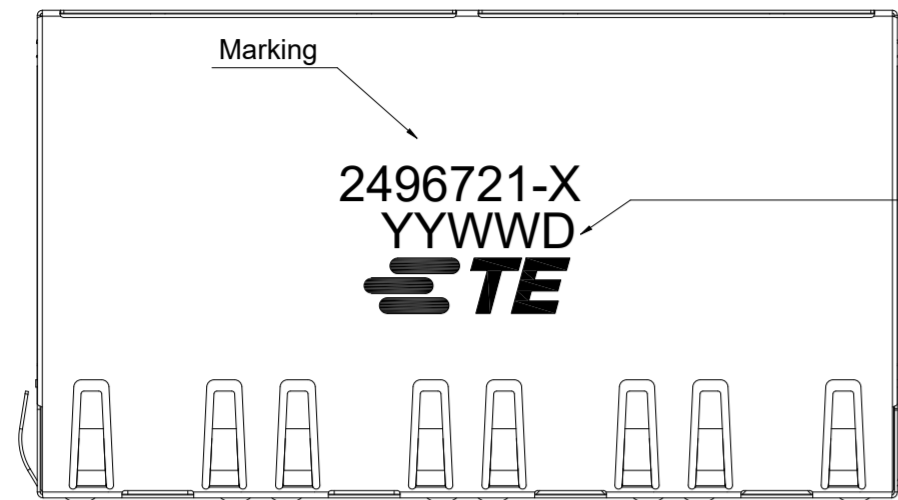


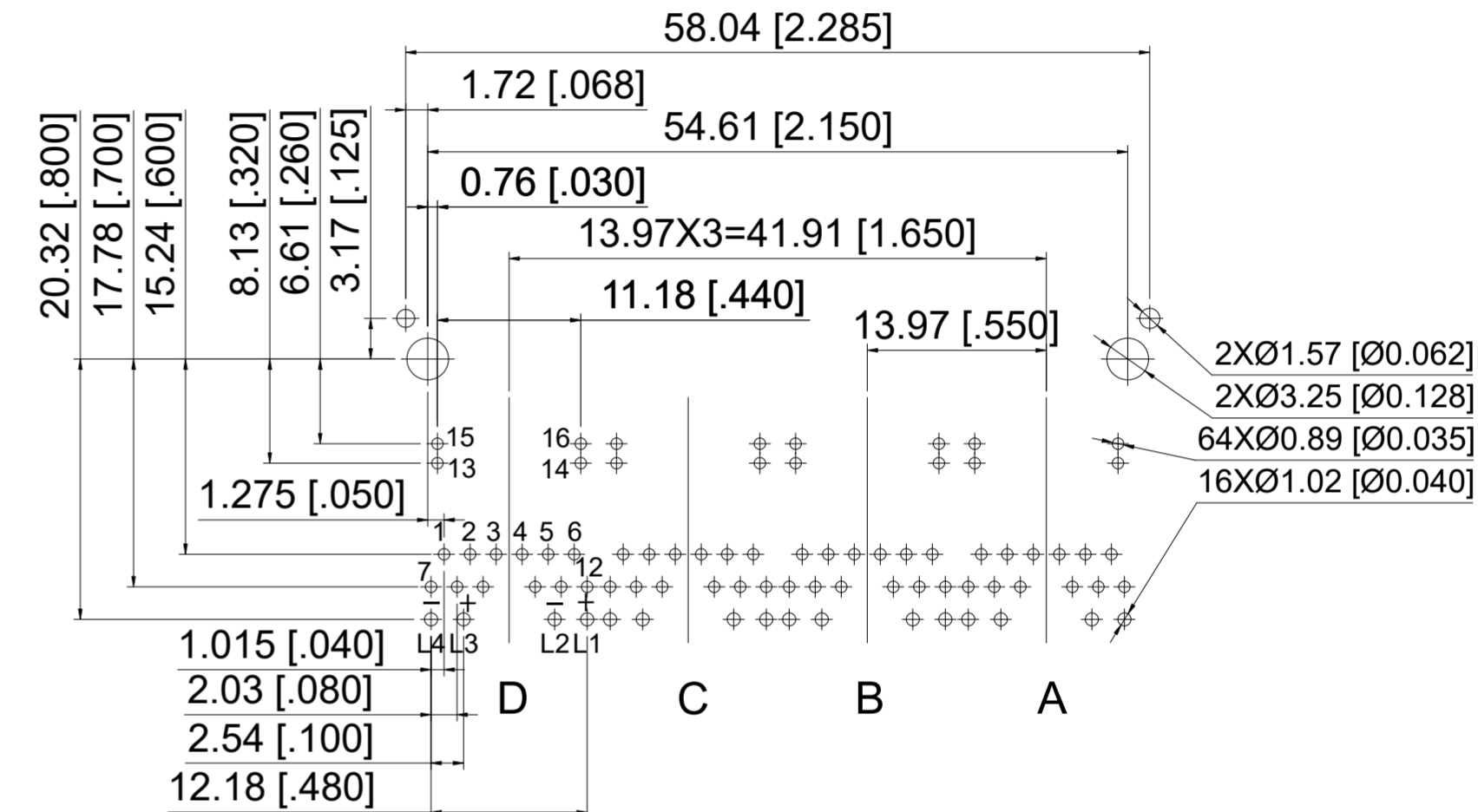
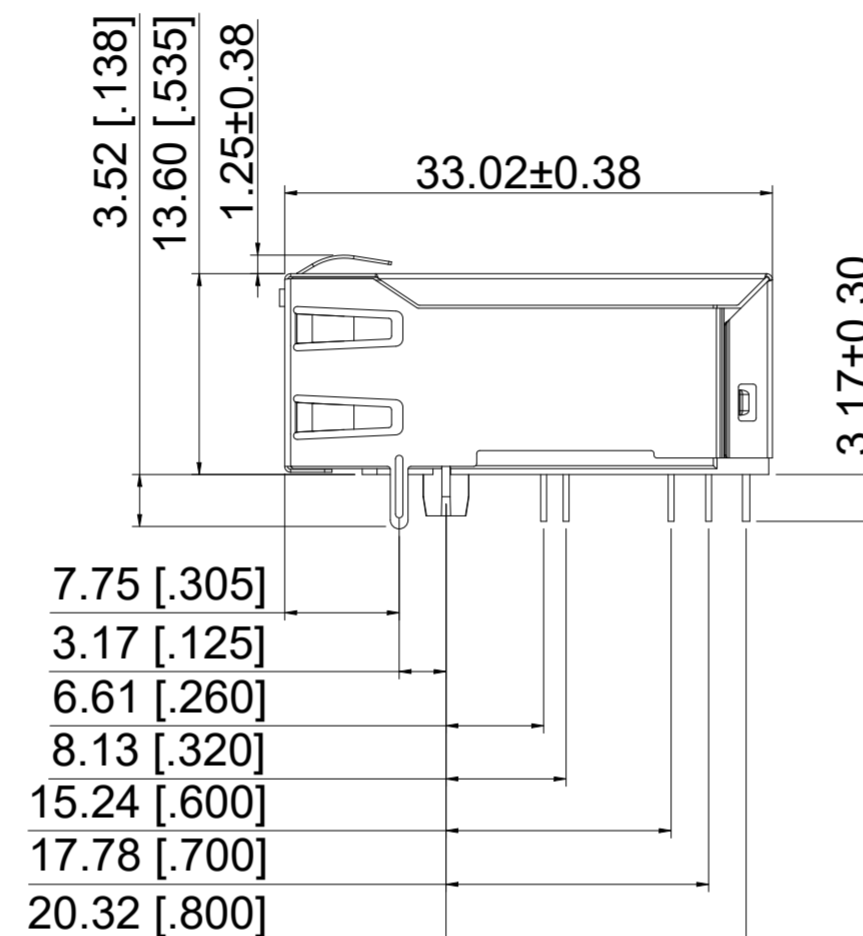
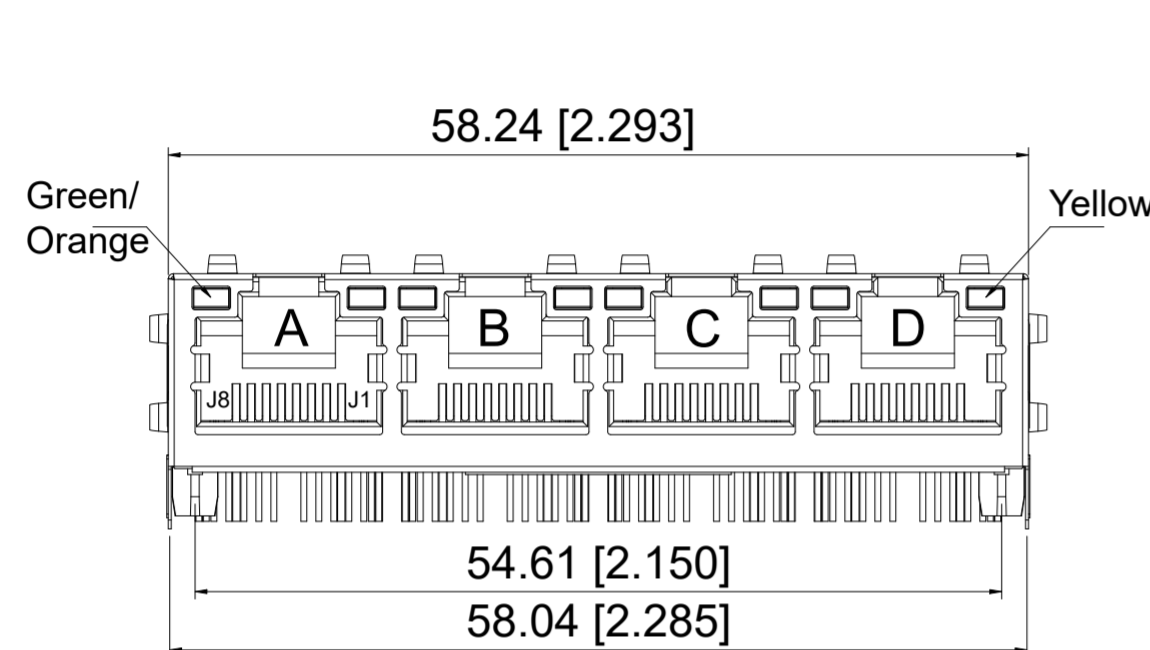
| REVISIONS | | | | | |
|-----------|-----|---------------------------|-----------|-----|------|
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
| A | | REVISED PER ECN-25-301496 | 10JAN2025 | TR | RCC |



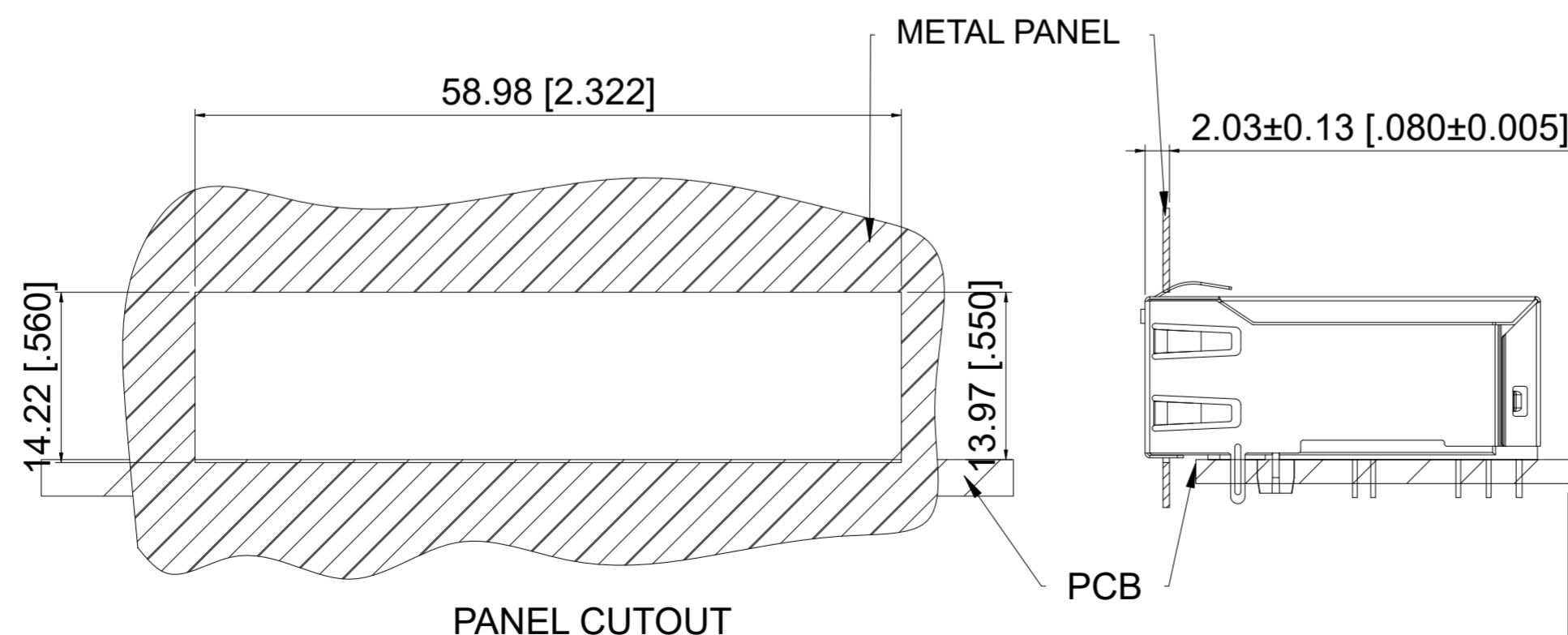
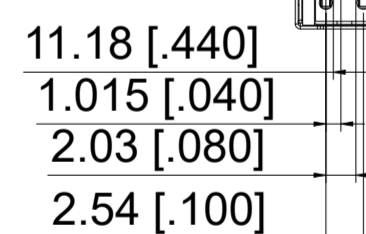
Note:
 X= 1,2,3,4,5,6
 YYWWD
 YY=YEAR
 WW=WEEK
 D=1 for Sunday - 7 for Saturday

NOTE :

- HOUSING: GLASS FILLED PA46 (BLACK) UL94V-0 (RoHS)
- CONTACT: PHOSPHOR BRONZE, 50 MICRONS MIN. OVERALL DUCTILE NICKEL UNDERPLATE WITH (REFER PART NUMBER TABLE) GOLD AT MATING INTERFACE
- SHIELD: 0.2mm THICKNESS WITH BRASS
- JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUBPART F
- THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS PEAK SOLDERING TEMPERATURE IS 260°C MAX, 10 SECS MAX.
- OPERATING TEMPERATURE: -40°C TO +85°C.
 STORAGE TEMPERATURE: -40°C TO +85°C.



RECOMMENDED P.C.B LAYOUT TOP VIEW (COMPONENT SIDE)
 Dimension Tolerance: PCB LAYOUT Tolerances: ±0.05 [0.002]

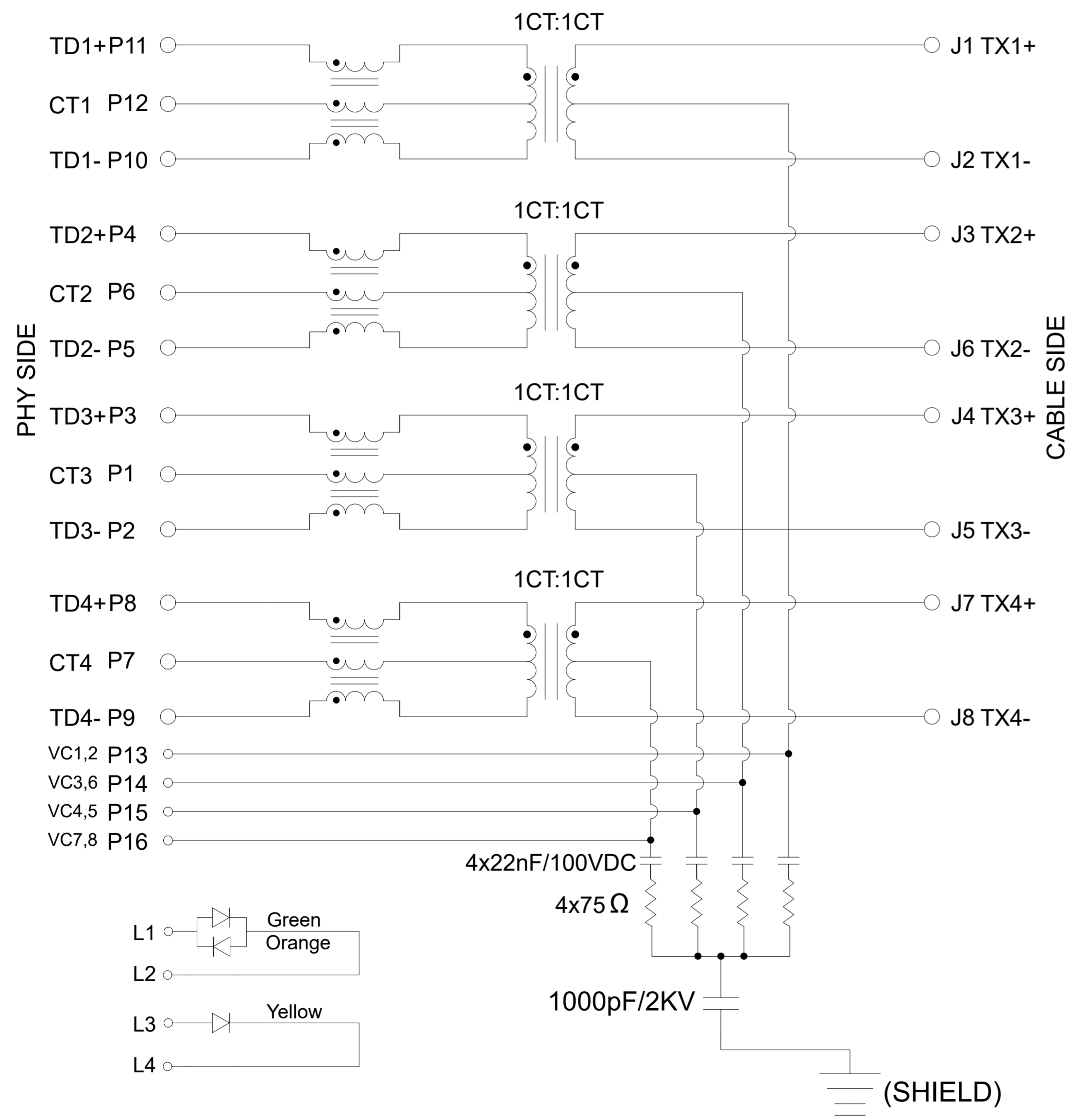


| GOLD PLATING THICKNESS | PART NUMBER |
|------------------------|-------------|
| GF | 2496721-6 |
| 0.0762 μm [3μ"] | 2496721-5 |
| 0.1524 μm [6μ"] | 2496721-4 |
| 0.381 μm [15μ"] | 2496721-3 |
| 0.762 μm [30μ"] | 2496721-2 |
| 1.27 μm [50μ"] | 2496721-1 |

| | | | | |
|--|--------------|-------------------------------------|----------------------------------|------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN TARUN, R 05NOV2024 | TE Connectivity | |
| DIMENSIONS: mm [INCHES] | | CHK RAMESH, KIVADER 05NOV2024 | RJ45 W/MAGNET 1X4 1G POE 60W LED | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: | | APVD RAGHAVAN, CG 05NOV2024 | NAME | |
| 0 PLC ± - | 1 PLC ± 0.35 | PRODUCT SPEC | 108-161622 | |
| 2 PLC ± 0.25 | 3 PLC ± 0.15 | APPLICATION SPEC | 114-161219 | |
| 4 PLC ± - | ANGLES ± 2 | WEIGHT | - | |
| MATERIAL | FINISH | SCALE | CAGE CODE | DRAWING NO |
| - | - | 1:1 | A2 00779 | C=2496721 |
| CUSTOMER DRAWING | | | SHEET | REV |
| | | | 1 OF 2 | A |

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

Schematic



| PARAMETER | SPECIFICATIONS |
|------------------------------------|---|
| OPERATING TEMPERATURE | -40°C To +85°C |
| TURNS RATIO | 1:1±2% |
| OPEN CIRCUIT INDUCTANCE(OCL) | 220uH MIN@100KHz/100mV With 19mA DC Bias For(CHANNEL1,2,3,4) 350uH MIN@100KHz/100mV With 8mA DC Bias For(CHANNEL1,2,3,4) |
| INSERTION LOSS(IL) | -1.2dB MAX@0.3MHz-100MHz; |
| RETURN LOSS(RL) (Z out=100 OHM) | -18dB MIN@1MHz-30MHz; -16dB MIN@30MHz-60MHz; -12dB MIN@60MHz-80MHz;-10dB MIN@80MHz-100MHz; |
| CROSSTALK (ADJACENT CHANNELS) | -30dB MIN@1MHz-100MHz; |
| COMMON MODE REJECTION RATIO(CMRR) | -30dB MIN@1MHz-100MHz; |
| DC CURRENT/VOLTAGE RATING-PSE PINS | 720mA MAXIMUM@57VDC(CONTINUOUS) |
| HI-POT | 2250 VDC@60 SECONDS |

| LED SPECIFICATION | | | |
|-------------------|------------|----------------|------|
| STANDARD LED | WAVELENGTH | Farward V(max) | TYP |
| GREEN | 570nm | 2.4V | 2.2V |
| YELLOW | 590nm | 2.5V | 2.1V |
| ORANGE | 605nm | 2.5V | 2.1V |

*WITH A FORWARD CURRENT OF 20mA

| | | | | |
|--|--|-------------------------------------|--|--------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN TARUN, R 05NOV2024 | | |
| DIMENSIONS: mm [INCHES] | | CHK RAMESH, KIVADER 05NOV2024 | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: | | APVD RAGHAVAN, CG 05NOV2024 | NAME RJ45 W/MAGNET 1X4 1G POE 60W LED | |
| 0 PLC ± - 1 PLC ± 0.35 2 PLC ± 0.25 3 PLC ± 0.15 4 PLC ± - ± 2 | | PRODUCT SPEC 108-161622 | RESTRICTED TO | |
| MATERIAL | | FINISH | SIZE A2 | CAGE CODE 00779 |
| WEIGHT | | FINISH | DRAWING NO C=2496721 | SCALE 1:1 |
| CUSTOMER DRAWING | | SHEET 2 OF 2 | | REV A |