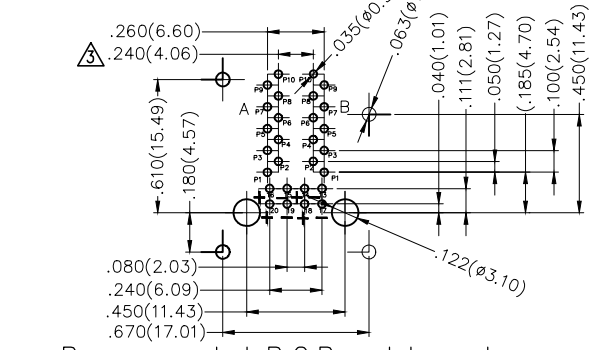
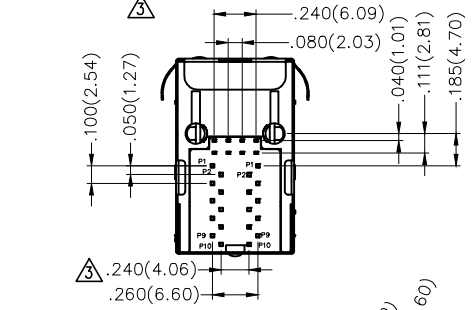
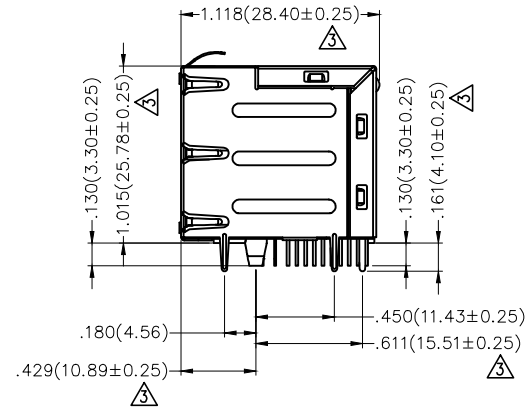
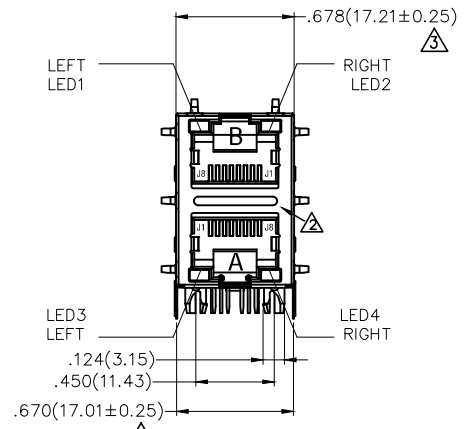


| REV | LOCATIONS | DESCRIPTION   | DATE      | REVISER | APPD   |
|-----|-----------|---|-----------|---------|--------|
| 1   | △         | 1. Dimension: Change 4.06 into 3.85mm<br>2. Part No.: Change FRJ45101 into FRJ45047 | 01/JUN/18 | Vandy   | Eric   |
| 2   | △         | Structure Change  | 26/Nov/20 | Cherry  | Eric   |
| 3   | △         | 1. Add LED style, 2. Tolerance changes  | 02/JUN/21 | KATE    | CHERRY |



Recommended P.C.Board Layout  
Tolerances: .002(±0.05)

**SPECIFICATIONS**


**Electrical**  
 Current Rating: 1.5A AC(rms)/DC  
 Voltage Rating: 125V AC(rms)/DC  
 Contact Resistance: 40 mΩ Max  
 Insulation Resistance: 1000 MΩ Min  
 Withstanding Voltage: 1000V AC r.m.s  
 Temperature Range—Operating: -25°C~+85°C

**Material and Plating**  
 Housing: Thermoplastic PA46 UL94V-0, Black  
 Contact: Phosphor Bronze/Gold Plated/Selective gold in contact area,matte tin on tail  
 Terminal for PCB: Copper Clad Steel  
 Shell: Stainless Steel T=0.2mm

**Ordering Information**

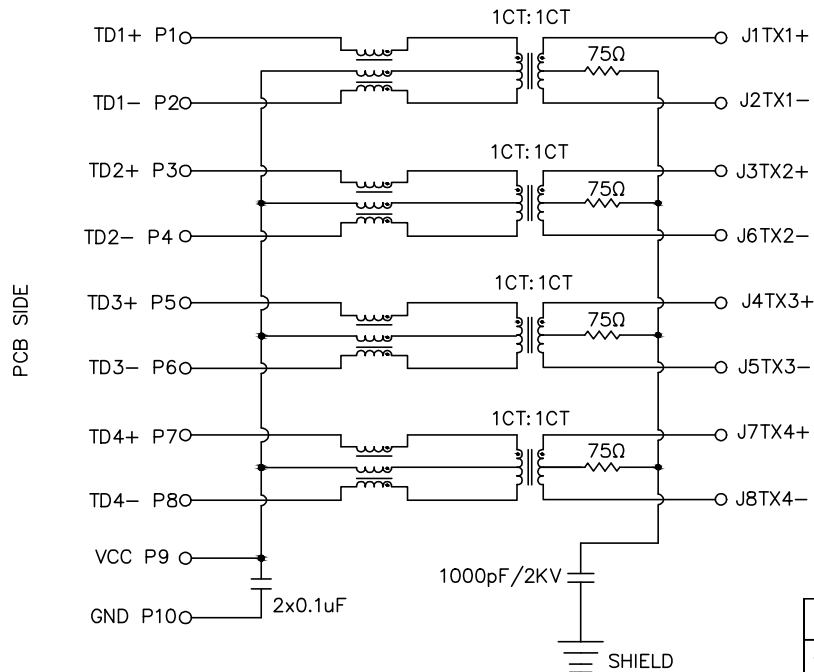
FRJ45 047 - 2 3 XX K6 K X 1 0 2  
 1 2 3 4 5 6 7 8 9 10

|                                    |                          |  |  |   |
|------------------------------------|--------------------------|--|--|---|
| 1 Category<br>FRJ45-RJ45 Connector | 2 Distinction No.<br>047 | 3 Ports options<br>2-2 Ports   | 4 Plating<br>3-Selective gold on contact area, tin on tail | 5 Thickness of plating<br>00-Gold flash<br>03-3μ"<br>Custom plate available |
| 6 Color-Resin<br>K6-Black          | 7 Packaging<br>K-Tray    | 8 LED style<br>9-L: green+yellow R: green+yellow<br>E-L: green R: green+yellow | 9 Contact type<br>1-Square pin                             | 10 Pin circuits<br>2-1000Base-T   |

|                        |                                       |  |  |                      |  |  |   |
|------------------------|---------------------------------------|--|--|----------------------|--|--|---|
| THIRD ANGLE PROJECTION | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | APPROVE BY<br>FRANK                    | DATE<br>18/JUN/13    | PART NO. △<br>FRJ45047-23XXK6KX102   | ITEM NO.<br>FRJ45047                                   | <br>Leader Of Industry |
|                        | DESIGN UNITS<br>Inch (metric)         | X.±.012(0.30)<br>X.X±.008(0.20)<br>X.XX±.006(0.15)<br>X.XXX±.004(0.10) | X.±5°<br>X.±2°<br>X.X±1°<br>X.XXX±0.5° | CHECKED BY<br>CHERRY | DATE<br>18/JUN/13  | TITLE<br>RJ45 Connectors 10P8C<br>90°Angle(1000Base-T) |   |
| SCALE<br>5:1           | SIZE<br>A4                            |  | DRAWN BY<br>KATE                       | DATE<br>18/JUN/13    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S,Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  | REV 3 SHEET NO. 1/2   |

| REV | LOCATIONS | DESCRIPTION | DATE | REVISER | APPD |
|-----|-----------|-------------|------|---------|------|
| 1   |           |             |      |         |      |

Schematic



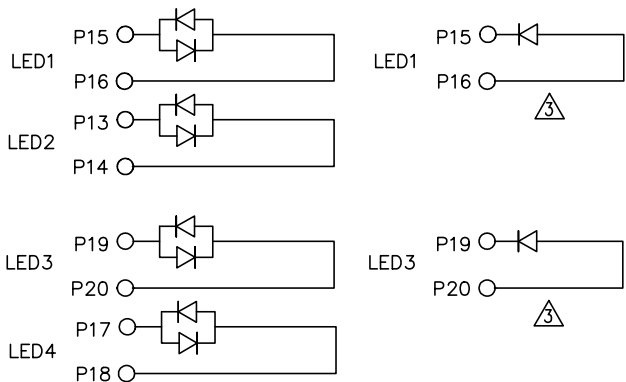
CABLE SIDE

| PARAMETER                          | SPECIFICATIONS   |
|------------------------------------|--|
| OPERATING TEMPERATURE              | 0°C to +70°C   |
| TURNS RATIO                        | 1:1±2%   |
| INDUCTANCE(OCL)                    | 350uH Min@100KHz/100mV With 8mA DC Bias                              |
| INSERTION LOSS                     | -1.0dB Max@0.3MHz-100MHz;  |
| RETURN LOSS (Z out=100 OHM)        | -18dB Min@1MHz-30MHz; -16dB Min@30MHz-60MHz; -12dB Min@60MHz-100MHz; |
| CROSSTALK (ADJACENT CHANNELS)      | -30dB Min@1MHz-100MHz;   |
| COMMON MODE REJECTION RATIO        | -30dB Min@1MHz-100MHz;   |
| DC CURRENT/VOLTAGE RATING-PSE PINS | 0.1A MAXIMUM@48VDC(CONTINUOUS)                                       |
| HI-POT                             | 2250 VDC@60 SECONDS  |

| LED SPECIFICATION |            |                |      |
|-------------------|------------|----------------|------|
| STANDARD LED      | WAVELENGTH | Forward V(max) | TYP  |
| LED1              | 570/590nm  | 2.4V           | 2.1V |
| LED2              | 570/590nm  | 2.4V           | 2.1V |
| LED3              | 570/590nm  | 2.4V           | 2.1V |
| LED4              | 570/590nm  | 2.4V           | 2.1V |

LED style

| Part No. | Left                                  | Right                                 |
|----------|---------------------------------------|---------------------------------------|
| 9        | P15- P16+: Green<br>P15+ P16-: Yellow | P13- P14+: Green<br>P13+ P14-: Yellow |
|          | P19- P20+: Green<br>P19+ P20-: Yellow | P17- P18+: Green<br>P17+ P18-: Yellow |
| E        | P15- P16+: Green                      | P13- P14+: Green                      |
|          | P19- P20+: Green                      | P17- P18+: Green                      |



|                               |                                       |                 |            |            |                                |  |                           |               |
|-------------------------------|---------------------------------------|-----------------|------------|------------|--------------------------------|--|---------------------------|---------------|
| <p>THIRD ANGLE PROJECTION</p> | GENERAL TOLERANCES (UNLESS SPECIFIED) |                 | APPROVE BY | DATE       | PART NO.  FRJ45047-23XXK6KX102 | ITEM NO. FRJ45047  | <p>Leader Of Industry</p> |               |
|                               | X.±.012(0.30)                         | X'.±5'          | FRANK      | 18/JUN/13  |                                |  |                           |               |
|                               | DESIGN UNITS Inch (metric)            | X.X±.008(0.20)  | .X'±2'     | CHECKED BY | DATE                           | TITLE RJ45 Connectors 10P8C 90°Angle(1000Base-T)   |                           | REV 3         |
|                               | SCALE 5:1                             | X.XX±.006(0.15) | .XX'±1'    | CHERRY     | 18/JUN/13                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                           | SHEET NO. 2/2 |
|                               | X.XXX±.004(0.10)                      | .XXX'±0.5'      | DRAWN BY   | DATE       |                                |  |                           |               |
|                               |                                       |                 | KATE       | 18/JUN/13  |                                |  |                           |               |