

| REV | LOCATIONS | DESCRIPTION   | DATE      | REVSER | APPD   |
|-----|-----------|---|-----------|--------|--------|
| 1   | △         | 1. Dimension: Change 3.00 into 3.2±0.2mm<br>Change 3.00 into 3.4±0.2mm<br>2. Add the "TXGA" logo<br>3. Part No.: Change FRJ4512 into FRJ45012 | 01/JUN/18 | Vandy  | Eric   |
| 2   | △         | 1. Structure change<br>2. Add dimensions  | 24/DEC/19 | KATE   | CHERRY |

SPECIFICATIONS

Electrical Performances

Current Rating: 1.5A AC(rms)/DC  
Voltage Rating: 125V AC(rms)/DC  
Contact Resistance: 30 mΩ Max  
Insulation Resistance: 500 MΩ MIN  
Withstanding Voltage: 1000V AC r.m.s

Material and Plating

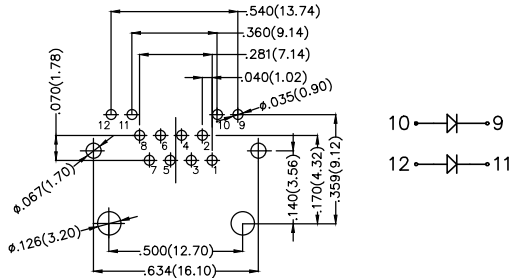
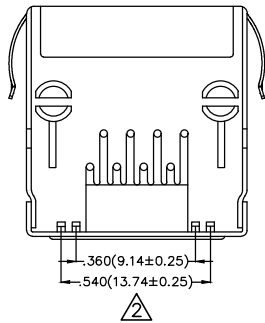
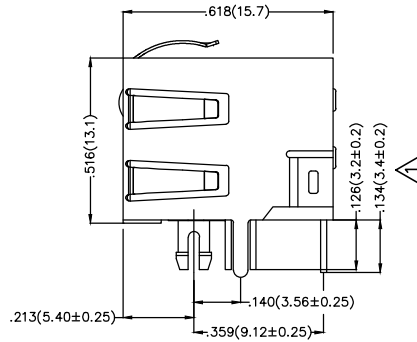
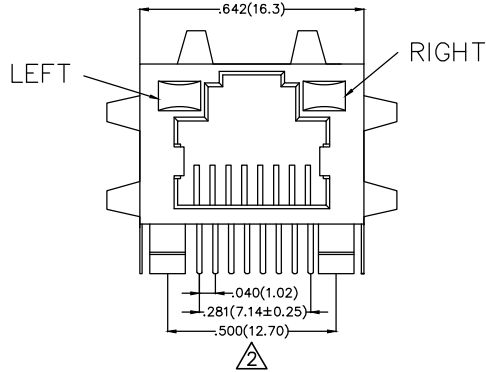
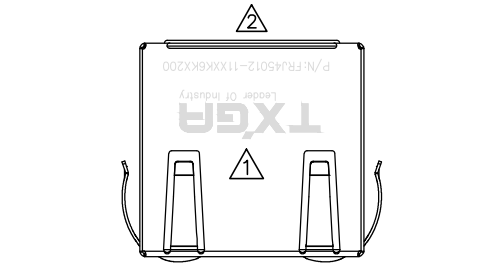
Housing: PBT UL 94V-0  
Contact: Phosphor Bronze/Gold Plated  
Shell: Copper Alloy/Nickel Plated

Mechanical Performances

Mating/Unmating Force: 30N Max  
Retention Strength: 50N For 60s±5s  
Durability: 750 Cycles Min.

Environmental Characteristics

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



Recommended P.C.Board Layout

Ordering Information

FRJ45 012 - 1 1 XX K6 K X 2 0 0  
1 2 3 4 5 6 7 8 9

|                                    |                          |   |                               |   |
|------------------------------------|--------------------------|---|-------------------------------|---|
| 1 Category<br>FRJ45-RJ45 Connector | 2 Distinction No.<br>012 | 3 Ports options<br>1-1 Port                                 | 4 Plating<br>1-Gold Plated    | 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>1-L: Yellow R: Green<br>2-L: Green R: Yellow | 9 Contact type<br>2-Round pin |   |

|                        |                                       |  |                                       |                      |  |   |                        |       |
|------------------------|---------------------------------------|--|---------------------------------------|----------------------|--|---|------------------------|-------|
| THIRD ANGLE PROJECTION | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | APPROVE BY<br>FRANK                   | DATE<br>31/MAY/17    | PART NO. △<br>FRJ45012-11XXK6KX200   | ITEM NO.<br>FRJ45012                      | <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>.XX±1"<br>.XXX±0.5" | CHECKED BY<br>CHERRY | DATE<br>31/MAY/17  | TITLE<br>RJ45 Connectors 8P8C<br>90°Angle |                        | REV 2 |
| SCALE<br>5:1           | SIZE<br>A4                            |  | DRAWN BY<br>LXF                       | DATE<br>31/MAY/17    | 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      | REVSER | APPD   |
|-----|-----------|---|-----------|--------|--------|
| 1   | △         | 1. Dimension: Change 3.00 into 3.2±0.2mm<br>2. Add the "TXGA" logo<br>3. Part No.: Change FRJ4512 into FRJ45012 | 01/JUN/18 | Vandy  | Eric   |
| 2   | △         | 1. Structure change<br>2. Add dimensions  | 24/DEC/19 | KATE   | CHERRY |

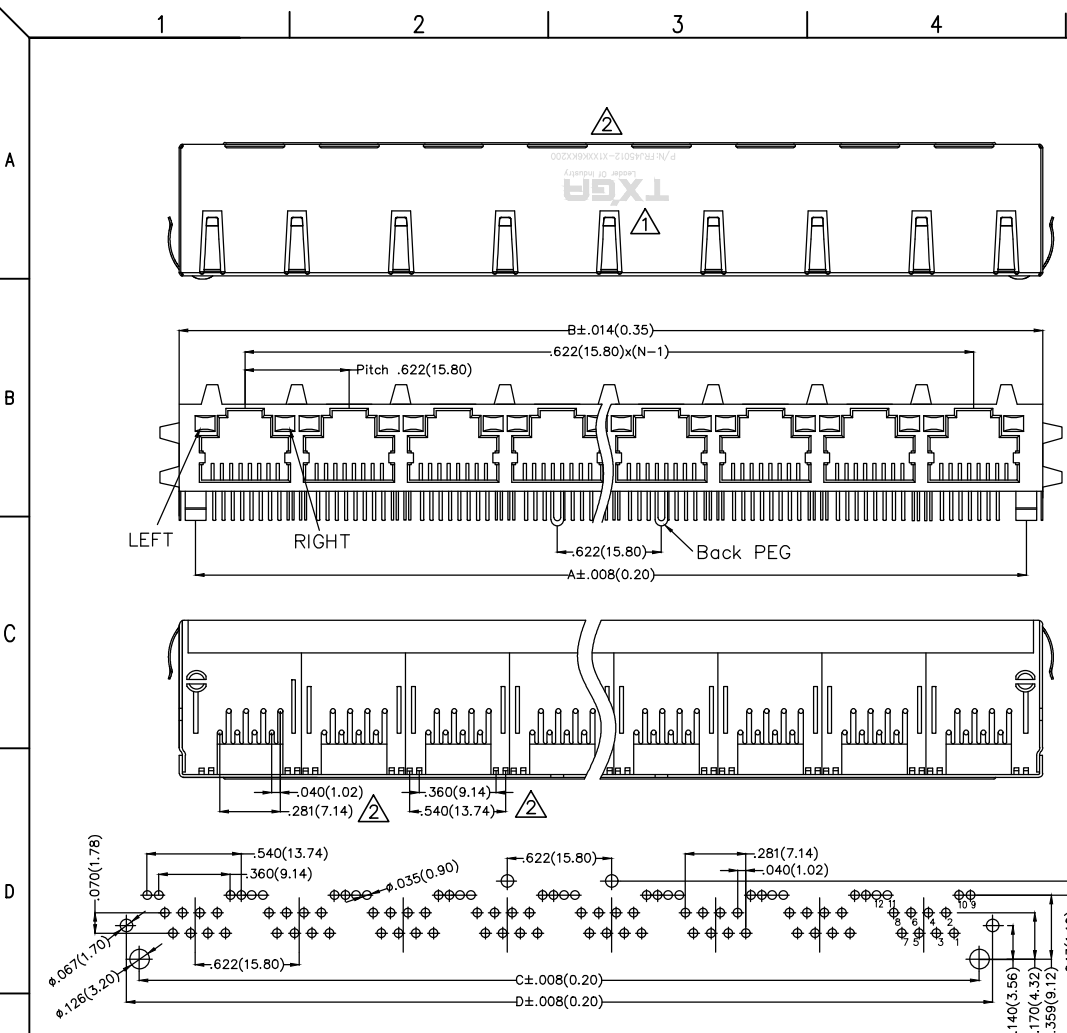
**SPECIFICATIONS**

**Electrical Performances**  
 Current Rating: 1.5A AC(rms)/DC  
 Voltage Rating: 125V AC(rms)/DC  
 Contact Resistance: 30 mΩ Max  
 Insulation Resistance: 500 MΩ MIN  
 Withstanding Voltage: 1000V AC r.m.s

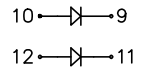
**Material and Plating**  
 Housing: PBT UL 94V-0  
 Contact: Phosphor Bronze/Gold Plated  
 Shell: Copper Alloy/Nickel Plated

**Mechanical Performances**  
 Mating/Unmating Force: 30N Max  
 Retention Strength: 50N For 60s±5s  
 Durability: 750 Cycles Min.

**Environmental Characteristics**  
 Temperature Range-Operating: -40°C~+85°C



**Recommended P.C.Board Layout**



**Ordering Information**

FRJ45 012 — X 1 XX K6 K X 2 0 0  
 1 2 3 4 5 6 7 8 9

|                                    |                          |   |                               |   |
|------------------------------------|--------------------------|---|-------------------------------|---|
| 1 Category<br>FRJ45-RJ45 Connector | 2 Distinction No.<br>012 | 3 Ports options<br>2-2 Ports<br>4-4 Ports<br>8-8 Ports      | 4 Plating<br>1-Gold Plated    | 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>1-L: Yellow R: Green<br>2-L: Green R: Yellow | 9 Contact type<br>2-Round pin |   |

| Ports | Part No.             | Dimensions(in/mm) |               |               |               | THIRD ANGLE PROJECTION        | GENERAL TOLERANCES (UNLESS SPECIFIED) |           | APPROVE BY<br>FRANK  | DATE<br>31/MAY/17 | PART NO. △<br>FRJ45012-X1XXK6KX200   | ITEM NO.<br>FRJ45012 | TITLE<br>RJ45 Connectors 8P8C<br>90°Angle | REV 2 | SHEET NO. 1/1 |
|-------|----------------------|-------------------|---------------|---------------|---------------|-------------------------------|---------------------------------------|-----------|----------------------|-------------------|--|----------------------|---|-------|---------------|
|       |                      | A                 | B             | C             | D             |                               | X.±.012(0.30)                         | X.±5'     |                      |                   |  |                      |   |       |               |
| 2     | FRJ45012-21XXK6KX200 | 1.122(28.50)      | 1.272(32.30)  | 1.122(28.50)  | 1.268(32.20)  | DESIGN UNITS<br>Inch (metric) | X.X±.008(0.20)                        | .X±2'     | CHECKED BY<br>CHERRY | DATE<br>31/MAY/17 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                      |   |       |               |
| 4     | FRJ45012-41XXK6KX200 | 2.366(60.10)      | 2.488(63.20)  | 2.366(60.10)  | 2.512(63.80)  | SCALE                         | X.XX±.006(0.15)                       | .XX±1'    | DRAWN BY<br>LXF      | DATE<br>31/MAY/17 |  |                      |   |       |               |
| 8     | FRJ45012-81XXK6KX200 | 4.854(123.30)     | 5.000(127.00) | 4.854(123.30) | 5.000(127.00) | SIZE<br>A4                    | X.XXX±.004(0.10)                      | .XXX±0.5' |                      |                   |  |                      |   |       |               |



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