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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

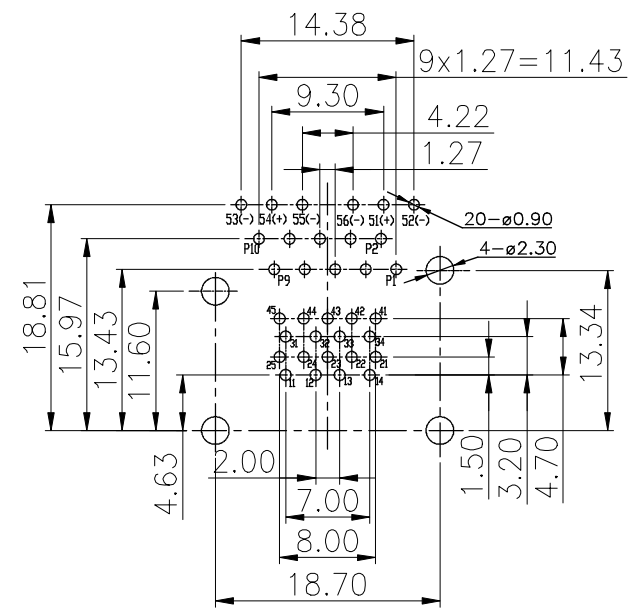
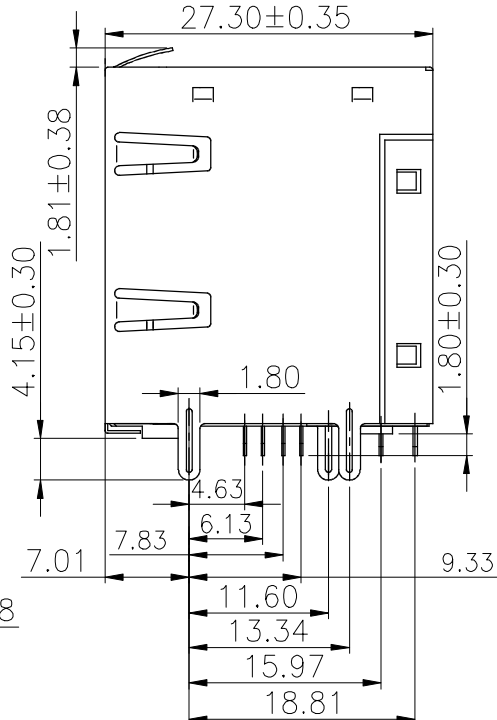
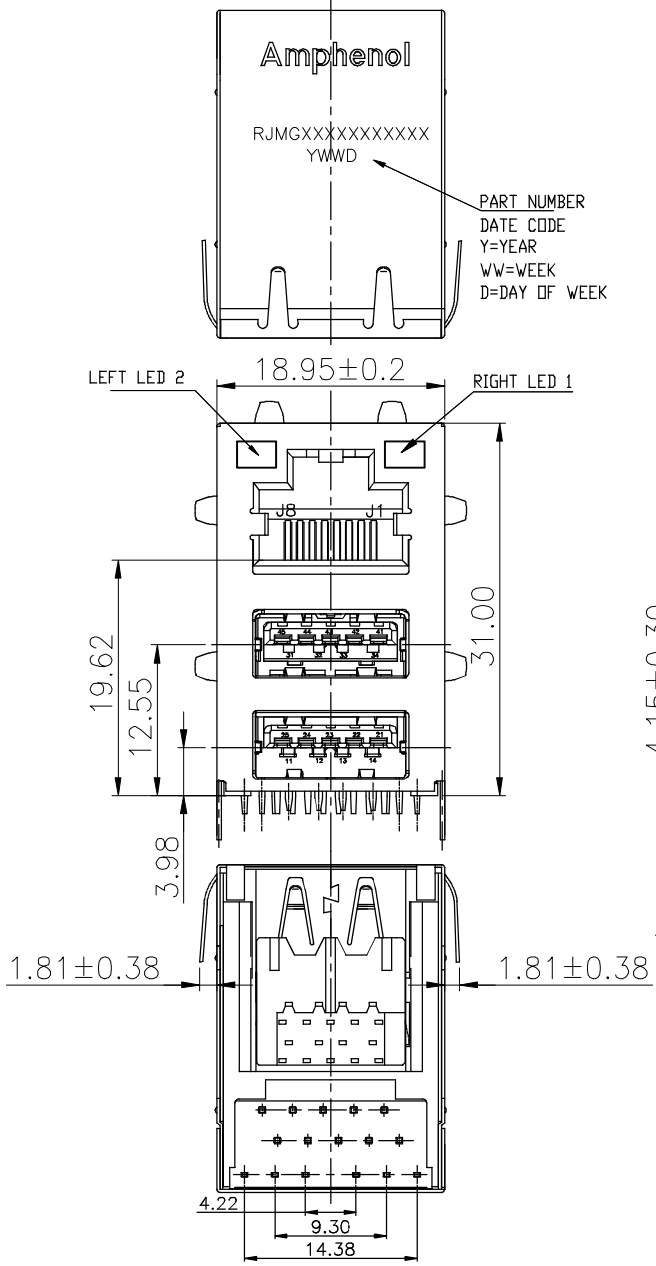


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The marking on this product doesn't contain environmental hazardous materials per Material Specification SS-00259 for Sony GP compliant or per directive 2011/65/EU for RoHS compliant.

PRELIMINARY RELEASE  
CUSTOMER DRAWING  
SUBJECT TO CHANGE

| REVISIONS |         |                                   |            |            |
|-----------|---------|-----------------------------------|------------|------------|
| SYM       | ECN No. | DESCRIPTION                       | DATE       | APPROVED   |
| AX1       |         | NEW RELEASE                       | 07/26/2016 | Roger Tsai |
| AX2       |         | ADD THE EMI FINGERS DIMENTION     | 08/22/2016 | Roger Tsai |
| AX3       |         | GND PIN changed from 3.50 to 4.15 | 08/22/2016 | Roger Tsai |



RECOMMENDED PCB LAYOUT  
TOL. ARE ±0.05 SCALE 2:1  
(TOP VIEW)

- NOTES:
- Material:
    - >.HOUSING:LCP,UL94V-0,COLOR:BLACK;
    - >.SHELL:Stainless steel;
    - >.RJ45 TERMINAL:PHOSPHOR BRONZE T=0.3mm; PLATING: 50u" NICKEL Min. UNDER PLATED; ALL OVER 100u" TIN Min. PLATED ALL OVER SELECT GOLD PLATED ON CONTACT AREA;
    - >.OTHERS TERMINAL:BRASS T=0.30mm PLATING: 50u" NICKEL Min. UNDER PLATED ALL OVER 100u" TIN Min. PLATED ALL OVER;

| TOLERANCE                                    | APPROVALS              | DATE                 | TITLE  |                 | Amphenol®   |             |
|--|------------------------|----------------------|--|-----------------|---|-------------|
| X.<br>X.X ±0.35<br>X.XX ±0.25<br>X.XXX ±0.15 | DRAWN<br>Jophy Li      | 10/08/2016           | RJmag 1000 Base-T<br>RJ Over Dual USB 3.0<br>With Led Option |                 | Amphenol Corporation<br>Amphenol Taiwan Corporation |             |
|  | CHECKED<br>Vivian Wen  | 10/08/2016           |  |                 |   |             |
|  | APPROVED<br>Roger Tsai | 10/08/2016           |  |                 |   |             |
| ANGULAR ±1'                                  | DWG TYPE<br>CUST DWG   | PROJECT CODE<br>RJMG | UNIT<br>mm   | SIZE<br>A3      | PART No.<br>RJMG24110XX70XR-A                       |             |
| UNLESS OTHERWISE SPECIFIED                   |                        |                      | SCALE<br>NA  | SHEET<br>1 OF 3 | DWG No.<br>RJMG24110XX70XR-A                        | REV.<br>AX3 |

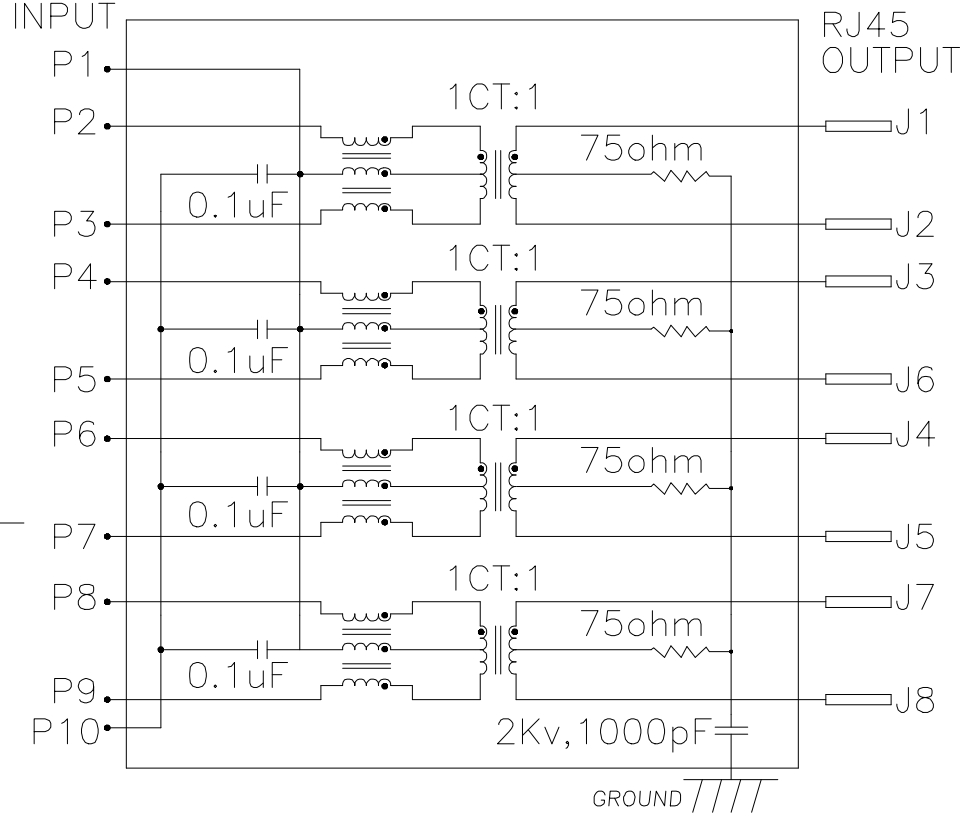
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**ELECTRONICAL SCHEMATIC**



**USB 3.0 Pin ASSIGNMENTS**

| Pin NUMBER | SIGNAL NAME | Pin NUMBER | SIGNAL NAME |
|------------|-------------|------------|-------------|
| 11&31      | VBUS        | 21&41      | SSRX-       |
| 12&32      | D-          | 22&42      | SSRX+       |
| 13&33      | D+          | 23&43      | GND         |
| 14&34      | GND         | 24&44      | SSTX-       |
| SHELL      | SHIELD      | 25&45      | SSTX+       |

**NOTE:**

- INDUCTANCE 350uH MIN 100KHz 100mV 8mA DC
- LED CONFIGURATION

| STANDARD LED | WAVELENGTH(λ) | V/ IF=20mA |       |
|--------------|---------------|------------|-------|
|              |               | MAX.       | Typ.  |
| YELLOW       | 580~595nm     | 2.5 V      | 2.1 V |
| ORANGE       | 602~610nm     | 2.5 V      | 2.1 V |
| GREEN        | 560~580nm     | 2.5 V      | 2.1 V |



| TOLERANCE                  | APPROVALS           | DATE              | TITLE  |              | Amphenol®   |          |  |  |
|----------------------------|---------------------|-------------------|--|--------------|---|----------|--|--|
| X. ±0.35                   | DRAWN Jophy Li      | 10/08/2016        | RJmag 1000 Base-T<br>RJ Over Dual USB 3.0<br>With Led Option |              | Amphenol Corporation<br>Amphenol Taiwan Corporation |          |  |  |
| X.XX ±0.25                 | CHECKED Vivian Wen  | 10/08/2016        |  |              |   |          |  |  |
| X.XXX ±0.15                | APPROVED Roger Tsai | 10/08/2016        |  |              |   |          |  |  |
| ANGULAR ±1°                | DWG TYPE CUST DWG   | PROJECT CODE RJMG | UNIT mm  | SIZE A3      | PART No. RJMG24110XX70XR-A                          |          |  |  |
| UNLESS OTHERWISE SPECIFIED |                     |                   | SCALE NA   | SHEET 2 OF 3 | DWG No. RJMG24110XX70XR-A                           | REV. AX3 |  |  |



PRELIMINARY RELEASE  
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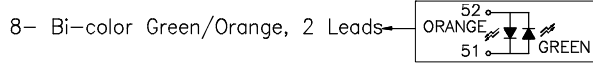
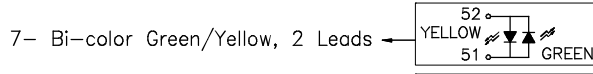
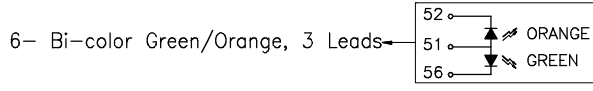
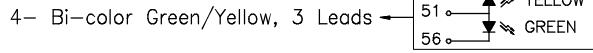
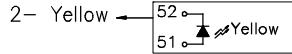
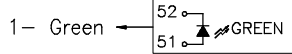
CUSTOMER DRAWING

| REVISIONS |         |                                   |            |            |
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RJMG24110XX70XR-A

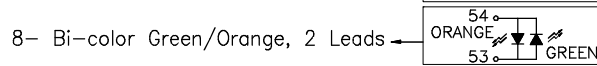
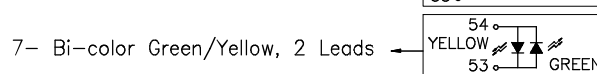
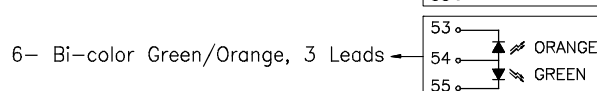
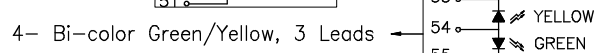
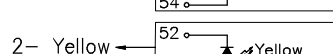
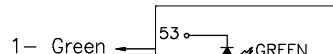
LED1 RIGHT SIDE

0- No LED (Blocked Hole)



LED2 LEFT SIDE

0- No LED (Blocked Hole)



OPTIONS:

- C- Gold Flash, Stainless steel shield, Tray
- D- Gold Plating, 15μ", Stainless steel shield, Tray
- E- Gold Plating, 30μ", Stainless steel shield, Tray
- F- Gold Plating, 50μ", Stainless steel shield, Tray



TRANSFORMER ELECTRICAL SPECIFICATIONS AT 25°

| TURNS RATIO | DATA RATE (MHz) | INSERTION LOSS (dB Min.) |          |             |              |               | RETURN LOSS Load 100±15Ω (dB Max.) |           |           |            | CROSS TALK (dB MAX.) |           |            | DM-CM (dB MAX.) | CM-CM (dB MAX.) |
|-------------|-----------------|--------------------------|----------|-------------|--------------|---------------|------------------------------------|-----------|-----------|------------|----------------------|-----------|------------|-----------------|-----------------|
|             |                 | 0.1-0.999 MHz            | 1-60 MHz | 60.1-80 MHz | 80.1-100 MHz | 100.1-125 MHz | 1-30 MHz                           | 30-60 MHz | 60-80 MHz | 80-100 MHz | 1-30 MHz             | 30-60 MHz | 60-100 MHz | 1-100 MHz       | 1-100 MHz       |
| 1CT:1CT     | 10/100/1000     | -1                       | -0.6     | -0.8        | -1.0         | -1.2          | -18                                | -16       | -12       | -10        | -40                  | -35       | -30        | -35             | -30             |

NOTES:

- 1 Inductance @100KHz/0.1V 350uH Min 8mA DC bias.
- 2 Hi-Pot Test:  
 P2-P3 TO J1-J2 2250VDC OR 1500VAD,1mA 60sec.  
 P4-P5 TO J3-J6 2250VDC OR 1500VAD,1mA 60sec.  
 P6-P7 TO J4-J5 2250VDC OR 1500VAD,1mA 60sec.  
 P8-P9 TO J7-J8 2250VDC OR 1500VAD,1mA 60sec.
- 3 OPERATING TEMPERATURE: 0°C~+70°C

|                            |                     |                   |  |              |                           |   |  |  |  |
|----------------------------|---------------------|-------------------|--|--------------|---------------------------|---|--|--|--|
| TOLERANCE                  | APPROVALS           | DATE              | TITLE  |              |                           | <p style="font-size: 1.2em; font-weight: bold;">Amphenol®</p> Amphenol Corporation<br>Amphenol Taiwan Corporation |  |  |  |
| X. ±0.35                   | DRAWN Jophy Li      | 10/08/2016        | RJmag 1000 Base-T<br>RJ Over Dual USB 3.0<br>With Led Option |              |                           |   |  |  |  |
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| ANGULAR ±1°                | DWG TYPE CUST DWG   | PROJECT CODE RJMG |  | UNIT mm      | SIZE A3                   | PART No. RJMG24110XX70XR-A  |  |  |  |
| UNLESS OTHERWISE SPECIFIED |                     |                   | SCALE NA   | SHEET 3 OF 3 | DWG No. RJMG24110XX70XR-A | REV. AX3  |  |  |  |