

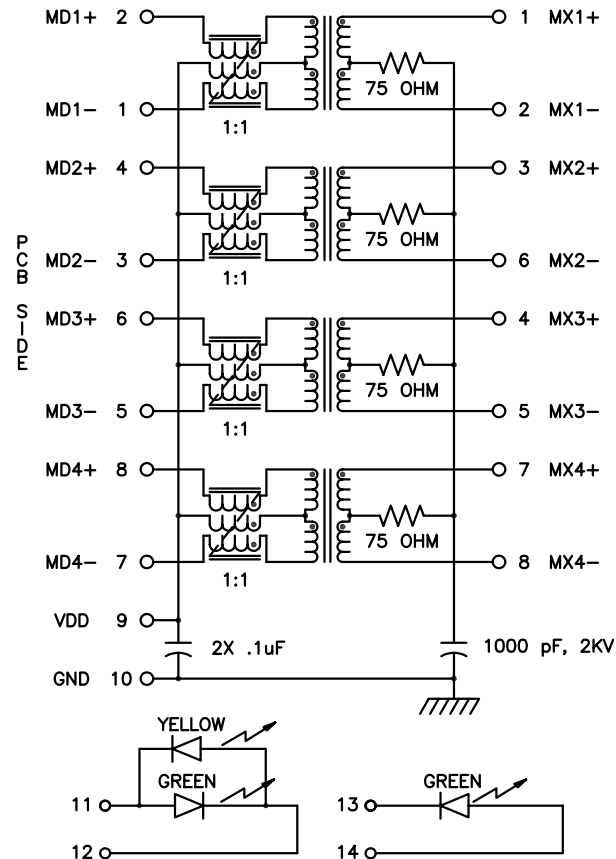
NOTES: UNLESS OTHERWISE SPECIFIED

1. THIS COMPONENT CONFORMS TO UL60950, UL FILE NO. IS: E216117.

|                                                                                                      |                                                                                                                                                                                                                     |               |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>WARNING:</b><br> | THIS COMPONENT IS RECOGNIZED BY ONE OR MORE SAFETY AGENCIES SUCH AS UL, VDE, CSA AND/OR TUV. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER QUALITY DEPARTMENT FOR SAFETY AGENCY COMPLIANCE. | ECN APPROVAL: |
|                                                                                                      |                                                                                                                                                                                                                     | QA APPROVAL:  |
|                                                                                                      |                                                                                                                                                                                                                     | DATE:         |

2. **NOTICE:**  
 THIS IS A RoHS COMPLIANT COMPONENT/PRODUCT. ALL ENGINEERING CHANGES MUST HAVE PRIOR APPROVAL BY THE DESIGN CENTER.

3. PLASTIC HOUSING: THERMOPLASTIC MATERIAL WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.  
4. CONTACT BASE MATERIAL: PHOSPHOR BRONZE.  
5. CONTACTS UNDERPLATE: 50 MICROINCHES DUCTILE NICKEL.  
6. CONTACTS PLATING: 50 MICRO-INCH GOLD PLATING.  
7. SOLDER TAIL PLATING MATERIAL: 200-500 μINCHES 100% TIN, MATTE FINISH.  
8. METAL SHIELD: NICKEL PLATING ON COPPER ALLOY.  
9. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUBPART F.  
10. PCB PLATING: ENIG.  
11. SOLDERABILITY: CONFORMS TO ANSI/J-STD-002, IPC/EIA J-STD-003A.  
12. OPERATING TEMPERATURE: 0°C TO +70°C  
13. STORAGE TEMPERATURE: -20°C TO +125°C  
14. JEDEC MOISTURE: LEVEL 1.  
15. DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.  
.XX= ±.02 [±0.5]  
.XXX= ±.010 [±0.25]



SCHMATIC  
EACH PORT (2 PLACES)

NOTE 1: HIGH-VOLTAGE CAPACITOR IS COMMON FOR UPPER AND LOWER PORTS.

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED  
(FOR REFERENCE ONLY. USED FOR CUSTOMER INFORMATION.)

| PARAMETER                                  | SPECIFICATIONS                                                         |                                            |             |
|--------------------------------------------|------------------------------------------------------------------------|--------------------------------------------|-------------|
| OPERATING TEMP                             | 0°C ~ 70°C                                                             |                                            |             |
| URNS RATIO                                 | 1 : 1 ±2%                                                              |                                            |             |
| POLARITY                                   | PER SCHEMATIC                                                          |                                            |             |
| INSERTION LOSS                             | 100 KHz                                                                | 1-100 MHz                                  | 125 MHz     |
|                                            | -1.2 dB MAX                                                            | -0.2-0.002*f <sup>1.4</sup> dB MAX         | -3.0 dB MAX |
| RETURN LOSS<br>(Z OUT=100 OHM ±15%)        | .1-40 MHz                                                              | 40-100 MHz                                 |             |
|                                            | -16 dB MIN                                                             | -10+20*LOG <sub>10</sub> (f/80 MHz) dB MIN |             |
| INDUCTANCE (OCL)<br>(MEDIA SIDE, 0°C-70°C) | 350 uH MIN ( MEASURED AT 100 KHz, 100 mVRMS<br>AND WITH 8 mA DC BIAS ) |                                            |             |
| CROSSTALK, ADJACENT<br>CHANNELS            | 1 MHz                                                                  | 10-100 MHz                                 |             |
|                                            | -50 dB MIN                                                             | -52+22*LOG <sub>10</sub> (f/10) dB MIN     |             |
| COMMON MODE<br>REJECTION RATIO             | 2 MHz                                                                  | 30-200 MHz                                 |             |
|                                            | -50 dB MIN                                                             | -15+20*LOG <sub>10</sub> (f/200) dB MIN    |             |
| INPUT - OUTPUT<br>ISOLATION                | 2250 VDC MINIMUM FOR 60 SECONDS                                        |                                            |             |

NOTE: f IS FREQUENCY IN MHZ.

| EMMITTED COLOR         | BI-COLOR                 |                          | SINGLE-COLOR         |
|------------------------|--------------------------|--------------------------|----------------------|
|                        | GREEN                    | YELLOW                   | GREEN                |
| WAVELENGTH (nm)        | 565 nm                   | 585 nm                   | 568 nm               |
| BRIGHNESS (mCD)        | 8 TO 12 TYP.<br>AT 20 mA | 8 TO 12 TYP.<br>AT 20 mA | 8.5 TYP.<br>AT 20 mA |
| VIEWING ANGLE          | 100°                     | 100°                     | 100°                 |
| POWER DISSIPATION (Pd) | 68 mW MAX                | 68 mW MAX                | 85 mW MAX            |
| DC FORWARD CURRENT     | 25 mA MAX                | 30 mA MAX                | 30 mA MAX            |
| REVERSE VOLTAGE (Vr)   | 5.0 V MAX                | 5.0 V MAX                | 5.0 V MAX            |

NOTE: PER VENDOR'S SPECIFICATIONS

© Copyright, 2010. Pulse Engineering, Inc. All rights reserved. Drawing specifications subject to change without notice. (09/15/10)

|                                        |                          |               |        |                    |      |
|----------------------------------------|--------------------------|---------------|--------|--------------------|------|
| PULSE CONFIDENTIAL<br>&<br>PROPRIETARY | PRODUCT DESCRIPTION      | PS DRAWING    | SHEET: | DWG. NO./ PART NO. | REV. |
|                                        | CONN,RJ45,1GD,2X1,1:1,TY | PS-2316.004-A | 1      | JC0-1011NL         | M10  |



|                                        |                          |               |        |                    |      |
|----------------------------------------|--------------------------|---------------|--------|--------------------|------|
| PULSE CONFIDENTIAL<br>&<br>PROPRIETARY | PRODUCT DESCRIPTION      | PS DRAWING    | SHEET: | DWG. NO./ PART NO. | REV. |
|                                        | CONN,RJ45,1GD,2X1,1:1,TY | PS-2316.004-A | 2      | JC0-1011NL         | M10  |