LED Specification

<table>
<thead>
<tr>
<th>Standard LED Color</th>
<th>LED Wavelength (nm)</th>
<th>Forward (V. MAX)</th>
<th>Typical (V TYP)</th>
<th>Luminous Intensity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>550-560</td>
<td>2.15</td>
<td>2.1-2.2V</td>
<td>9-25 MCD</td>
</tr>
<tr>
<td>Yellow</td>
<td>580-610</td>
<td>2.5</td>
<td>2.1-2.2V</td>
<td>9-30 MCD</td>
</tr>
<tr>
<td>Orange</td>
<td>580-610</td>
<td>2.5</td>
<td>2.1-2.2V</td>
<td>50-100 MCD</td>
</tr>
</tbody>
</table>

1. LED intensity/wavelength measured with Photo Research PR-650 Colorimeter
2. With a forward current of 20 mA. Absolute Maximum Ratings (Ta=25°C)

Specification

1: TOLERANCES UNLESS OTHERWISE SPECIFIED:
0-10±0.15, 10-20±0.2, 20-40±0.25,
40-70±0.3, >70±0.4

2: JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.
**DESCRIPTION**

RA5 With Internal Magnetics Connector

Designed to support such applications as: Ethernet, Equipment, Complex, Switches, Routers, Firewalls, Servers, and Hub.

**ELECTRICAL:**

RoHS compliant.

- Peak input/output voltage rating: 250V
- High performance for maximum EMI suppression
- 350μH minimum CGL with 8mA bias current
- Pd rating: 15W, 350mA, 48V (For Poc Products only)

**JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 6B, SUBPART F.**

**MECHANICAL:**

- Insertion force: 2 contacts: 350g, 4 contacts: 500g
- Retention force: 6 contacts: 750g, 8 contacts: 900g
- Retention strength: 7Kg, between jack and plug
- Durability: 750 mating cycles mini

**HOUSING:**

1) Glass Filled PA66 (UL 94V-0)
2) Glass Filled PA66/PC (UL 94V-0)
3) Glass Filled PBT (UL 94V-0)

**MATERIAL:**

- Spring wire: 1) 0.2-0.4mm Dia. phosphor bronze gold plating over nickel
  - 2) 0.2-0.35mm thickness phosphor bronze alloy selective gold plating over nickel
- Shielding: 0.12-0.24mm thickness copper alloy with tin plated
- Gold plating: 3μ, 6μ, 15μ, 30μ, 50μ
- Working temperature: 0°C to 70°C
- Tolerances unless otherwise specified: ± 10% ± 15%, ± 20% ± 2%, ± 40% ± 25%, ± 40% ± 10%, ± 0% ± 1%

**ELECTRICAL SPECIFICATIONS AT 25°C**

<table>
<thead>
<tr>
<th>Insertion Loss</th>
<th>Return Loss</th>
<th>Crosstalk</th>
<th>Common Mode Rejection</th>
<th>Voltage (rms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-125MHz</td>
<td>30-100MHz</td>
<td>1-100MHz</td>
<td>1-100MHz</td>
<td></td>
</tr>
<tr>
<td>-1.2</td>
<td>-18</td>
<td>-18-100μv/100μv</td>
<td>-30</td>
<td>1500/150μVR/2200μVR/0.1μA</td>
</tr>
</tbody>
</table>