MMCX Straight PC Mount
Jack Receptacle

<table>
<thead>
<tr>
<th>&quot;L&quot;</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>.115 (2.92)</td>
<td>135-3701-201</td>
</tr>
<tr>
<td>.068 (1.73)</td>
<td>135-3701-211</td>
</tr>
</tbody>
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Mounting Hole Layout

- □ .100 (2.54)
- 5X Ø .031 (0.79)
# MMCX - 50 Ohm Connectors

## Specifications

### ELECTRICAL RATINGS

**Impedance:** 50 ohms  
**Frequency Range:**  
- Cabled Connectors: 0.6 GHz  
- Dummy loads: 0.1 GHz

**VSWR:**  
- (f = GHz)  
  - Straight:  
    - .047 dia flexible: 1.20, 1.14 + .07f  
    - RG-178, RG-316, RG-316DS: 1.20, 1.25  
  - Right Angle:  
    - .086 semi-rigid: 1.15  
    - RG-178, RG-316, RG-316DS: 1.15

**Contact Resistance:** (milliohms maximum)  
- Initial:  
  - Center contact (straight cabled connectors): 5.0  
  - Center contact (right angle cabled connectors): 5.0  
  - Outer contact (all connectors): 1.0  
  - Braid to body: 1.5

**Insulation Resistance:** 1000 megohms min

**Dielectric Withstanding Voltage:** Connectors: 500 Vrms at sea level†  
- Dummy loads: N/A

**Working Voltage:** Connectors: 170 Vrms at sea level†  
- Dummy loads: N/A

**RF Leakage:** (dB minimum, tested at 2.5 GHz)  
- Center contact (straight cabled connectors and uncabled receptacles): -70 dB  
- Center contact (right angle cabled connectors): -60 dB  
- Outer contact (all connectors): -70 dB  
- Dummy loads: N/A

**RF High Potential Withstanding Voltage:** (400 Vrms at 4 and 7 MHz)†  
- Connectors: 0.5 watt @ +25°C, derated to 0.25 watt @ +125°C

**Power Rating (Dummy Load):** 0.5 watt @ +25°C, derated to 0.25 watt @ +125°C

**Note:** Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

### MECHANICAL RATINGS

**Engagement Design:** Series MMCX  
**Engagement/Disengagement Force:**  
- 8 lbs. max axial engagement  
- 1.4 lbs. min axial disengagement

**Contact Retention:** 2.0 lbs. minimum axial force

**Cable Retention:**  
- Axial Force*:  
  - Connectors for .047 flexible: 3.5 lbs.  
  - Connectors for RG-178: 7.0 lbs.  
  - Connectors for RG-316: 20.0 lbs.  
  - Connectors for RG-316DS: 25.0 lbs.  
  - Connectors for .086 semi-rigid: 30.0 lbs.

**Torque (in-oz):**  
- Connectors for .047 flexible: N/A  
- Connectors for RG-178: N/A  
- Connectors for RG-316: N/A  
- Connectors for RG-316DS: N/A  
- Connectors for .086 semi-rigid: 16 in-oz

**Durability:** 500 cycles minimum

### ENVIRONMENTAL RATINGS

**Operating Temperature:**  
- Connectors: -65°C to +165°C  
- Dummy loads: -65°C to +125°C

**Thermal Shock:** Connectors: MIL-STD-202, Method 107, Condition C, except -55°C to + 155°C (N/A dummy loads)  
**Corrosion:** MIL-STD-202, Method 101, Condition B (N/A dummy loads)  
**Shock:** MIL-STD-202, Method 213, Condition B (N/A dummy loads)  
**Vibration:** MIL-STD-202, Method 204, Condition D (N/A dummy loads)  
**Moisture Resistance:** MIL-STD-202, Method 106 (N/A dummy loads)

### MATERIAL SPECIFICATIONS

**Bodies:** Brass per QQ-B-626, gold plated* per MIL-G-45204 .00001" min.  
**Contacts:** Beryllium copper per QQ-C-530, gold plated* per MIL-G-45204 .00003" min.  
**Interface Spring:** Beryllium copper per QQ-C-530, gold plated* per MIL-G-45204 .00003" min.  
**Insulators:** PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457  
**Crimp Sleeves:** Copper per WW-T-799 or brass per QQ-B-626, gold plated per MIL-G-45204 .00001" min.  
**Mounting Hardware:** Brass per QQ-B-626 or QQ-B-613, gold plated per MIL-G-45204 .00001" min.

*All gold plated parts include a .00005" min nickel barrier layer.

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### Mating Engagement for MMCX Series

1. ID of contact to meet VSWR mating characteristics and connector durability when mated with a dia .016 +/- .001 male contact.  
2. Must meet the force to engage and disengage when mated with mating part.

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**Image:**

Mating Engagement for MMCX Series diagram

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