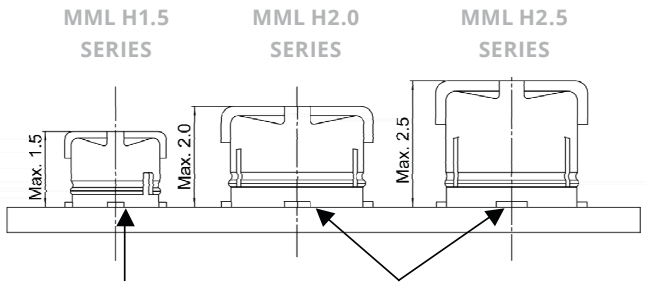
*MML*

## INTRODUCTION

Radiall has developed a new MML series to address the market demand for smaller microminiature coaxial connectors for applications such as cell relay, WiFi access points, GPS and other mobile terminals. There are three types of plugs with mated heights of H2.5, H2.0 and H1.5, as well as two types of vertical PCB receptacles with electrical performance up to 6 GHz.

### FEATURES

- Two vertical PCB receptacles
  - MML H2.5 and MML H2.0
  - MML H1.5
- Space saving
  - Three mated heights 2.5 mm, 2.0 mm, 1.5 mm
  - PCB patterns 3.08 mm x 3 mm for H2.5 and H2.0, 2 mm x 2 mm for H1.5
- DC - 6GHz, typical VSWR 1.35 max
- Cable assemblies are offered with three high performance cables: 1.33 mm for MML H2.5, 1.13 mm for MML H2.0, 0.81 mm for MML H1.5




PCB RECEPTACLE H1.5: R302 152 000

PCB RECEPTACLE H2.5 AND 2.0: R302 302 000

### APPLICATIONS

- Handhelds/GPS/WLAN
- GSM/CDMA/WCDMA/TD-SCDMA cards

## CHARACTERISTICS

| TEST / CHARACTERISTICS | VALUES / REMARKS |
|---|---|
| **ELECTRICAL CHARACTERISTICS** | |
| **Nominal Impedance** | 50Ω |
| **Frequency Range** | DC - 6 GHz |
| **Typical VSWR** | 1.35 max |
| **Contact Resistance**<br>**• Center Contact**<br>**• Outer Contact** | <br>25 mΩ<br>15 mΩ |
| **Insulation Resistance** | 500 MΩ min |
| **Voltage Rating**<br>**• H2.5 and H2**<br>**• H1.5** | <br>200 Vrms<br>150 Vrms |
| **Withstanding Voltage**<br>**• H2.5 and H2**<br>**• H1.5** | <br>300 Vrms<br>200 Vrms |
| **Mechanical Durability** | 30 cycles |
| **Center Contact Axial Force** | 0.15 N |
| **RoHS** | Compliant |
| **Temperature Range** | -40 °C / +90 °C |
| **Humidity** | 96 hours at Temperature of 40 °C and Humidity of 95% |
| **Corrosion (Salt Spray)** | 5% Salt Water Solution, 48 hours |

**MATERIALS AND PLATING**

| | Materials | Platings |
|---|---|---|
| **Connector Bodies** | Phosphor Bronze | Gold |
| **Female Center Contact** | | |
| **Male Center Contact** | Brass | |