



MMT

## CHARACTERISTICS

| TEST / CHARACTERISTICS | TEST STANDARD | VALUES / REMARKS |
|------------------------|---------------|------------------|
|------------------------|---------------|------------------|

### ELECTRICAL CHARACTERISTICS

|                               |                           |                                                         |                    |
|-------------------------------|---------------------------|---------------------------------------------------------|--------------------|
| Impedance                     | -                         | 50Ω                                                     | 75Ω                |
| Frequency Range               | -                         | DC - 8 GHz                                              | DC - 1 GHz         |
| Typical V.S.W.R. (Mated Pair) | IEC 1169-1                | 1.05 at 1 GHz<br>1.10 at 2.5 GHz<br>1.15 at 6 GHz       |                    |
| Insertion Loss                | IEC 1169-1                | ≤ 0.2 √ F (GHz)                                         |                    |
| RF Leakage (Mated Pair)       | IEC 1726                  | -42 dB at 500 MHz<br>-38 dB at 1 GHz<br>-30 dB at 3 GHz |                    |
| Outer Contact Resistance      | IEC 1169-1 (I=40 mA eff.) | Initial: 2.5 mΩ max                                     | Final: 12.5 mΩ max |
| Center Contact Resistance     | IEC 1169-1 (I=40 mA eff.) | Initial: 5 mΩ max                                       | Final: 15 mΩ max   |
| Insulation Resistance         | IEC 1169-1                | ≥ 5000 MΩ under 500 Vcc                                 |                    |
| Working Voltage               | -                         | 170 V eff.                                              |                    |
| Testing Voltage               | IEC 1169-1                | 500 V eff.                                              |                    |
| Maximum Admissible Power      | -                         | 23 W at 1.8 GHz / 40 °C / V.S.W.R. = 1.1                |                    |

### MECHANICAL CHARACTERISTICS

|                           |             |                               |
|---------------------------|-------------|-------------------------------|
| Durability                | IEC 1169-1  | 500 matings                   |
| Force to Engage/Disengage | IEC 1169-1  | Ins ≤ 18 N Ext > 7 N          |
| Shocks                    | IEC 68-2-27 | Passed                        |
| Vibrations                | IEC 68-2-6  | Passed                        |
| Bump                      | IEC 68-2-29 | Passed                        |
| Cable Retention Force     | IEC 1169-1  | Ø 2 mm: 20 N ; Ø 2.6 mm: 60 N |
| Solderability             | IEC 68-2-29 | Passed                        |

### ENVIRONMENTAL CHARACTERISTICS

|                   |                       |                |
|-------------------|-----------------------|----------------|
| Temperature Range | -                     | 55 °C / 100 °C |
| Damp Heat         | IEC 68-23             | Passed         |
| Thermal Shocks    | IEC 68-2-14 / Test NA | Passed         |

### MATERIALS

|                              |              |
|------------------------------|--------------|
| Plugs Body/In-Series Adaptor | Brass        |
| Receptacles Body             | CuSn9p       |
| Plugs Center Contact         | Cube2        |
| Receptacles Center Contact   | Brass        |
| Insulator                    | PTFE, Delrin |

### PLATING

|                                 |              |
|---------------------------------|--------------|
| Bodies Plugs/In-Series Adapters | Nickel / BBR |
| Bodies Receptacles              | Gold         |
| Plugs Center Contact            | Gold         |
| Receptacles Center Contact      | Gold         |

### RF LEAKAGE AND V.S.W.R

