



MC-Card

## CHARACTERISTICS

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

## ELECTRICAL CHARACTERISTICS

|                                                                                                                 |                                              |              |              |              |              |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------|--------------|--------------|--------------|
| Impedance                                                                                                       | 50Ω                                          |              |              |              |              |
| Frequency Range                                                                                                 | Connectors: DC - 8 GHz<br>Switch: DC - 3 GHz |              |              |              |              |
| Typical V.S.W.R.<br>• Straight Models<br>- 2/50 Cable<br>• Right Angle Models<br>- 2/50 Cable<br>- 2.6/50 Cable | 1                                            | 2.5          | 4            | 6            | 8            |
|                                                                                                                 | 1.07                                         | 1.15         | 1.16         | 1.17         | 1.25         |
|                                                                                                                 | 1.08<br>1.05                                 | 1.17<br>1.08 | 1.22<br>1.10 | 1.26<br>1.13 | 1.30<br>1.12 |
| Insertion Loss (dB)<br>• Straight Connectors<br>• Right Angle Connectors                                        | 0.04<br>0.05                                 | 0.08<br>0.10 | 0.11<br>0.15 | 0.15<br>0.20 | 0.15<br>0.25 |
| RF Leakage (dB max)                                                                                             | -65 dB max at 8 GHz                          |              |              |              |              |
| Insulation Resistance                                                                                           | 5000 MΩ min                                  |              |              |              |              |
| Contact Resistance<br>• Center Contact<br>• Outer Contact                                                       | 1.5 mΩ<br>0.2 mΩ                             |              |              |              |              |
| Working Voltage in V.R.M.S.<br>• At Sea Level (at 21000 m)                                                      | 170                                          |              |              |              |              |
| Dielectric Withstanding Voltage in V.R.M.S.<br>• At Sea Level                                                   | 500                                          |              |              |              |              |
| RF Testing Voltage Sea Level in V.R.M.S.                                                                        | 500                                          |              |              |              |              |

## MECHANICAL CHARACTERISTICS

|                                                         |               |
|---------------------------------------------------------|---------------|
| Durability                                              | 5000 Matings  |
| Force to Engage and Disengage                           | 6.2 N         |
| Force to Disengage                                      | 8.8 N         |
| Cable Retention Force<br>• 2/50 Cable<br>• 2.6/50 Cable | 58 N<br>110 N |
| Center Contact Retention Force                          | Slide-On      |

## ENVIRONMENTAL CHARACTERISTICS

|                                             |                                                                                                                                        |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Temperature Range<br>• Switches<br>• Others | -40 °C / +110 °C<br>-25 °C / +125 °C                                                                                                   |
| Thermal Cycling Test                        | MIL STD 202, Method 107, Condition B                                                                                                   |
| High Temperature Endurance                  | MIL STD 202, Method 108                                                                                                                |
| Corrosion (Salt Spray)                      | MIL STD 202, Method 101, Condition B                                                                                                   |
| Vibration                                   | MIL STD 202, Method 204, Condition B                                                                                                   |
| Shock                                       | MIL STD 202, Method 213, Condition G                                                                                                   |
| Moisture Resistance                         | MIL STD 202, Method 106                                                                                                                |
| Hermeticity                                 | MIL STD 202, Method 112, Condition C<br>Vacuum 10 <sup>-6</sup> Hgmm (Torr)<br>Leakage Rate 10 <sup>-6</sup> atm / cm <sup>3</sup> / s |
| Barometric Pressure                         | Pressure Test: 3.5 Bars; Duration: 2 mn;<br>Temperature: 15 °C to 25 °C                                                                |

## MATERIALS

|                                               |                                                              |
|-----------------------------------------------|--------------------------------------------------------------|
| Bodies                                        | Brass                                                        |
| Center Contact<br>• Male<br>• Female          | Brass<br>Bronze or Heat Treated Beryllium Following QQ-C-530 |
| Insulator<br>• Cable Connectors<br>• Switches | PTFE<br>Polyether Ethercetone 30% GF                         |
| Gasket                                        | Silicone Rubber                                              |

## PLATING

|                                                                                            |                                       |
|--------------------------------------------------------------------------------------------|---------------------------------------|
| Bodies<br>• Cable Connectors<br>• SMT Receptacles<br>• Edge Card Receptacles<br>• Switches | Nickel or BBR<br>Gold<br>Gold<br>Gold |
| Center Contacts                                                                            | Gold                                  |