## Technical Data

### Interface

According to IEC 61169-16, MIL-PRF-39012, CECC 22210

<table>
<thead>
<tr>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>min.</td>
<td>max.</td>
</tr>
<tr>
<td>A</td>
<td>Ø 3.04 nom.</td>
</tr>
<tr>
<td>B</td>
<td>Ø 7.00 nom.</td>
</tr>
<tr>
<td>C</td>
<td>Ø 8.027</td>
</tr>
<tr>
<td>D</td>
<td>5.28</td>
</tr>
<tr>
<td>E</td>
<td>Ø 1.60</td>
</tr>
<tr>
<td>F</td>
<td>5/8-24 UNEF-2B</td>
</tr>
<tr>
<td>G</td>
<td>9.25</td>
</tr>
<tr>
<td>H</td>
<td>–</td>
</tr>
<tr>
<td>I</td>
<td>0.41</td>
</tr>
</tbody>
</table>

Dimensions in mm

1) Resilient, dimension to meet electrical and mechanical requirements
Technical Data

53

N (50 Ω)

53-000-000_TD

Electrical data

Impedance
Frequency range
Return loss (cable connector straight)
Insertion loss
Insulation resistance
Center contact resistance
Outer contact resistance
Working voltage
Power handling
RF leakage – Interface
Intermodulation 3rd order

50 Ω
DC to 11 GHz
≥ 26 dB (typ.)
≤ 0.1 x √f [GHz] dB
≥ 5 GΩ
≤ 1 mΩ
≤ 0.25 mΩ
500 V rms
1000 W @ 1 GHz
700 W @ 2 GHz
≥ 128 dB @ DC to 1 GHz
≤ -155 dBC (2 x 43 dBm)

Mechanical data

Mating cycles
Coupling nut retention
Center contact captivation
Coupling test torque
Coupling torque recommended

≥ 500
≥ 450 N
axial: ≥ 28 N
radial: ≥ 3 Ncm
≤ 1.7 Nm
0.7 Nm to 1.1 Nm

Environmental data

Temperature range
Thermal shock
Degree of protection (mated pair)
Corrosion resistance
Moisture resistance
Vibration
Shock
Max. soldering temperature (PCB connectors)

-65 °C to +165 °C
MIL-STD-202, Method 107, Condition B
IEC 60529, IP 68
MIL-STD-202, Method 101, Condition B
MIL-STD-202, Method 106
MIL-STD-202, Method 204, Condition B
MIL-STD-202, Method 213, Condition I
IEC 61760-1, +260 °C for 10 sec.

Materials

Connector parts
Spring loaded contact parts
Center contact
Outer contact
Crimping ferrule
Dielectric
Gasket

Material
CuBe
CuZn
CuZn
Cu
PTFE
Rubber

Plating
Au
Au / Ag
Ag / white bronze
white bronze

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