

# DATA SHEET

## Cable connector



### Part Number

5000.SMA.PSC.03.111

### Description

SMA, Plug, Straight, Cable Mount

### Interface Standard

IEC 60169-15

### Suitable Cable

RG402/U, UT141



### Electrical Data

|                                 |                             |             |                   |             |
|---------------------------------|-----------------------------|-------------|-------------------|-------------|
| Impedance                       | 50                          | $\Omega$    |                   |             |
| Max. operating frequency        | 18                          | GHz         | connector limited |             |
| Frequency range                 | DC to 1GHz                  | 1 to 2.2GHz | 2.2 to 3GHz       | 3 to 6GHz   |
| VSWR                            | $\leq 1.04$                 | $\leq 1.06$ | $\leq 1.06$       | $\leq 1.06$ |
| Insertion loss                  | $0.03 \sqrt{f(\text{GHz})}$ | dB          |                   |             |
| Insulation resistance           | $\geq 5000$                 | M $\Omega$  |                   |             |
| Center contact resistance       | $\leq 3$                    | m $\Omega$  |                   |             |
| Outer contact resistance        | $\leq 2.5$                  | m $\Omega$  |                   |             |
| Dielectric withstanding voltage | $\geq 1000$                 | Vrms @ 50Hz | cable limited     |             |
| Working voltage                 | $\leq 335$                  | Vrms @ 50Hz | cable limited     |             |

### Mechanical Data

|                             |              |    |
|-----------------------------|--------------|----|
| Mating cycles               | $\geq 500$   |    |
| Center contact axial force  | $\geq 22$    | N  |
| Center contact axial torque | $\geq 0.03$  | Nm |
| Contact gauge ret. Force    | $\geq 0.28$  | N  |
| Center contact              | solder       |    |
| Outer contact               | solder       |    |
| Cable retention force       |              |    |
| -RG402/U                    | $\geq 100$   | N  |
| -UT141                      | $\geq 309.1$ | N  |

### Environmental Data

|                       |  |
|-----------------------|--|
| Operating temperature | restricted by cable and/or silicone used |
| 2002/95/EC (ROHS)     | compliant                                |
| Sealing               | N/A                                      |
| Thermal shock         | MIL-STD-202 Method107, condition B       |
| Moisture resistance   | MIL-STD-202 Method106                    |
| Corrosion resistance  | MIL-STD-202 Method101, condition B       |
| Vibration             | MIL-STD-202 Method204, condition D       |
| Shock                 | MIL-STD-202 Method213, condition I       |

### Material Data

| <u>Piece Parts</u> | <u>Material</u> | <u>Surface Plating</u> |
|--------------------|-----------------|------------------------|
| center contact     | Brass           | Au                     |
| body               | Brass           | Au                     |
| insulator          | PTFE            |                        |
| nut                | Brass           | Au                     |
| O-ring             | silicone rubber |                        |
| spring ring        | Stainless steel |                        |

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