

All dimensions are in mm; tolerances according to ISO 2768 m-H

Documents

Tape & reel packaging VG125.20000

Material and plating

Connector parts

| | Material | Plating |
|------------|-----------------|-----------------------|
| Ferrule | Brass | AuroDur®, gold plated |
| Pistons | Brass | AuroDur®, gold plated |
| Spring | Stainless steel | N/A |
| Dielectric | ULTEM 1000 | |

Electrical data

| | |
|---|---|
| Impedance | 50 Ω |
| Frequency | DC to 6 GHz |
| Return loss | ≥ -35 dB, DC to 2 GHz ≥ -27 dB, 2 to 4 GHz ≥ -20 dB, 4 to 6 GHz |
| Insertion loss | ≤ 0.04 x √f(GHz)dB |
| Insulation resistance | ≥ 5 x10 ³ MΩ |
| Contact resistance | ≤ 25 mOhm after 5 cycles with operational stroke |
| Test voltage | 1000 V rms |
| Working voltage | 480 V rms |
| Power handling (at 20 °C, sea level, VSWR 1.0) | ≤ 100 W @ 2 GHz |
| RF-leakage | ≥ 40 dB up to 6 GHz |
| <i>- VSWR in application depends decisive on PCB layout -</i> | |

Mechanical data

| | |
|----------------|------------------------------------|
| Mating cycles | min. 1000 |
| Contacts | 4 ground, 1 signal |
| Working range | 2.5mm ±0.25mm |
| Forces | at 3.0 mm 0.25N At 2.5 mm 0.95N |
| Minimal height | 2.25 mm |

Environmental data

| | |
|-----------------------|---|
| Operating temperature | IEC 60068-2-1, Aa -40 °C IEC 60068-2-2, Bb +90 °C |
| Storage temperature | IEC 60068-2-1, Aa -55 °C IEC 60068-2-2, Bb +100 °C |
| 2002/95/EC (RoHS) | compliant |

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RF_35/09.14/6.2

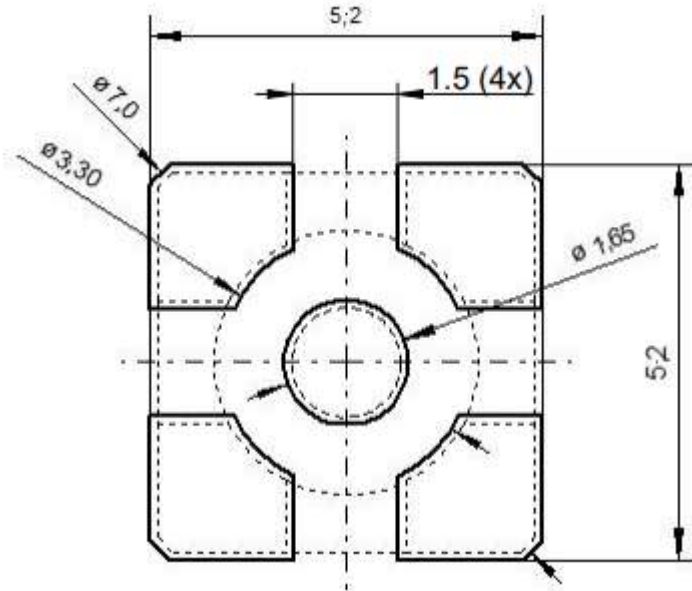
99CI

SPRING LOADED PIN
CONTROLLED IMPEDANCE

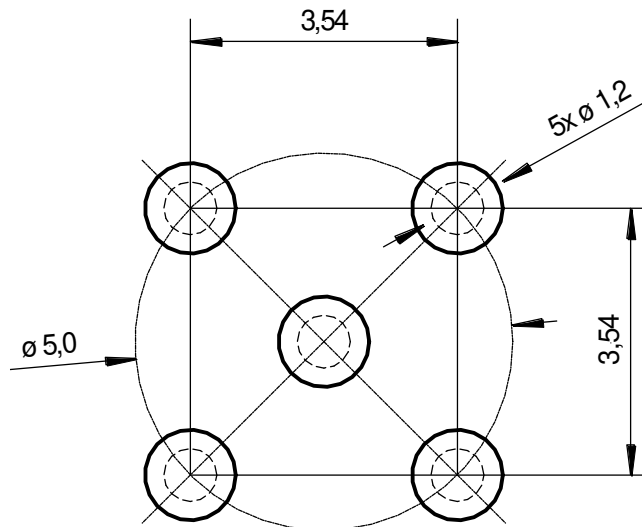
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PCB Layout

Solder side



Contact side



Packing

Standard
Optional

2,000 pcs. in T&R
50 pcs. in blister

Weight

0.26 g/pce.

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
|---------------|----------|---------------|------------|------|---------------------------|---------------|------------|
| C. Kainzmaier | 06.03.17 | C. Kainzmaier | 14.07.2023 | f00 | 23-0003 | S. Hofmeister | 14.07.2023 |

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