

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

99CI SPRING LOADED PIN  
CONTROLLED IMPEDANCE**99CI106-030L5****Documents**

Tape &amp; reel packaging VG125.20000

**Material and plating****Connector parts**

Ferrule

Pistons

Spring

Dielectric

**Material**

Brass

Brass

Stainless steel

ULTEM 1000

**Plating**

AuroDur®, gold plated

AuroDur®, gold plated

N/A

**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  $\sqrt{f(\text{GHz})}$  dB

Insulation resistance

≥ 5 x10<sup>3</sup> 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

*- VSWR in application depends decisive on PCB layout -***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

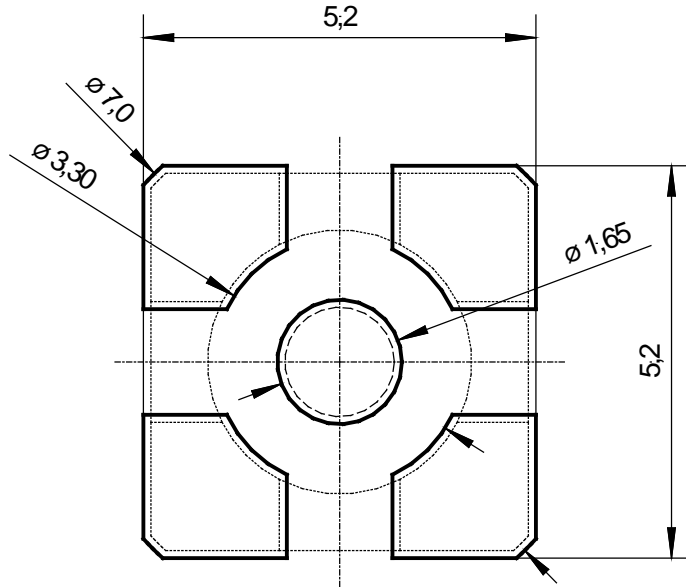
IEC 60068-2-2, Bb +100 °C

2002/95/EC (RoHS)

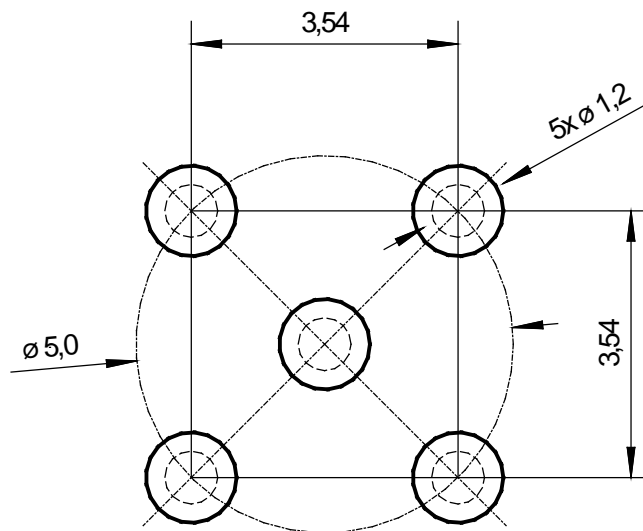
compliant

**PCB Layout**

Solder side



Contact side



**Packing**

Standard  
Optional

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

Weight

0.26 g/pce.

RF\_35/06.07/5.0

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
C. Kainzmaier	06.03.17	C. Kainzmaier	06.03.17	d00	17-0004	C. Kainzmaier	06.03.17
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