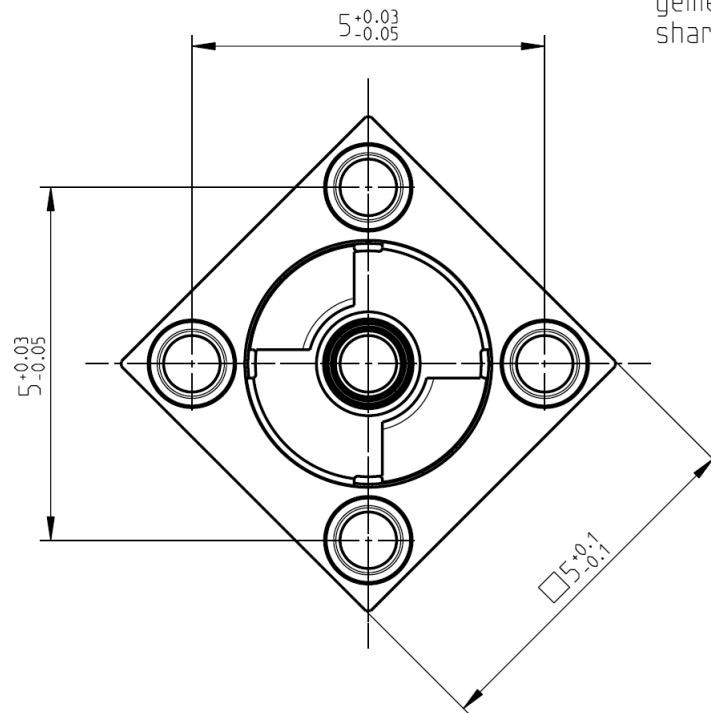


gemeinsame Toleranzzone  
shared tolerance



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

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RF\_35/09\_14/6.2

**Documents**

Tape & reel packaging VG125.20000

**Material and plating**

**Connector parts**

	<b>Material</b>	<b>Plating</b>
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 <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
<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

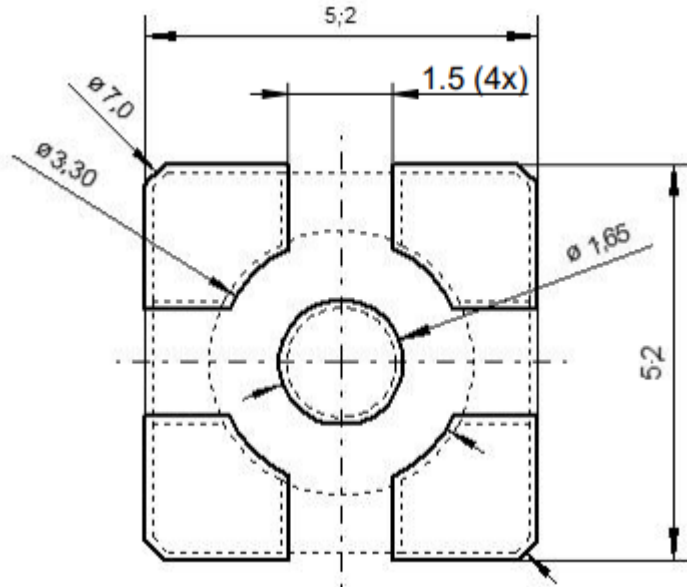
99CI

SPRING LOADED PIN  
CONTROLLED IMPEDANCE

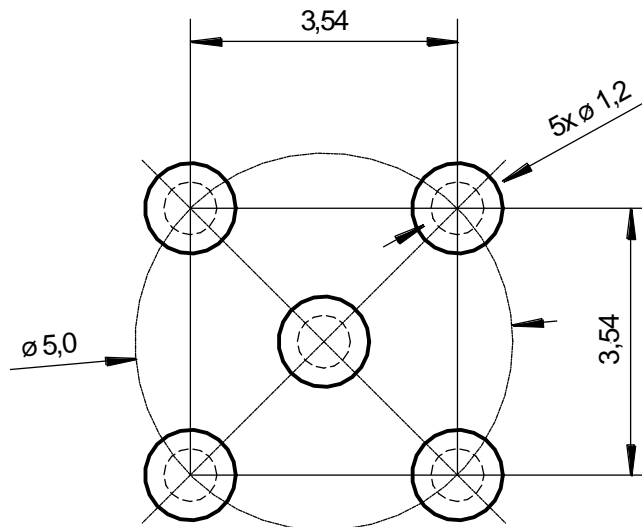
**99CI106-030L5**

**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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