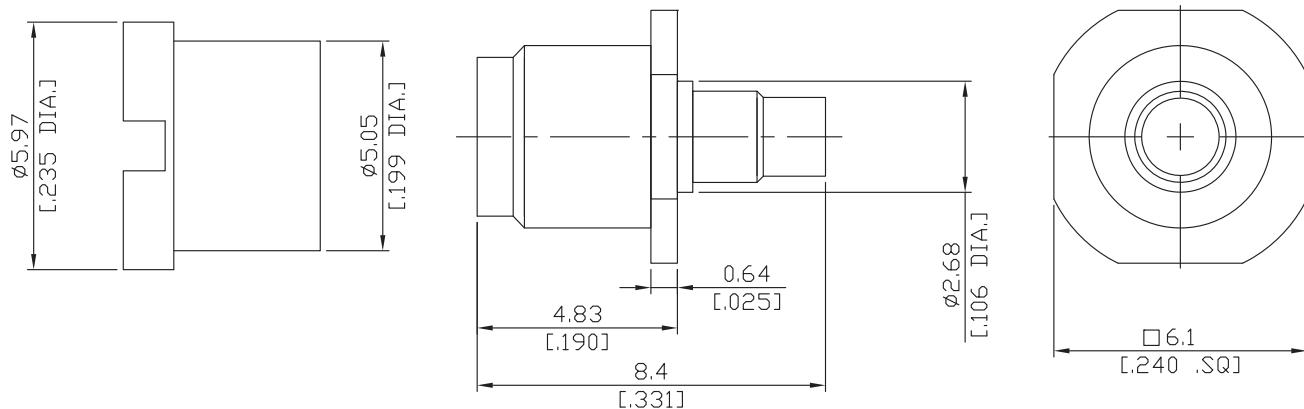


**SMPM Plug (Male) Snap-On Connector Solder Attachment**  
**for RSR047, RSF047, DC-26.5 GHz VSWR 1.25, 26.5-40 GHz VSWR 1.40**

**SMP1EA50FD-0047A / 99**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

#### Interface

According to

MIL-STD-348A,/328-2

#### Electrical Data

Impedance

50 Ω

Frequency

DC to 40 GHz

VSWR (Return Loss)

≤ 1.25 ( $\geq 19.08$  dB) DC to 26.5 GHz   ≤ 1.40 ( $\geq 15.56$  dB) 26.5 to 40 GHz

Insertion Loss

≤ 0.1  $\times \sqrt{f}$  (GHz) dB

Insulation Resistance

≥ 5 GΩ

Center Contact Resistance

≤ 6.0 mΩ

Outer Contact Resistance

≤ 2.0 mΩ

Test Voltage (at sea level)

500 V rms

Working Voltage (at sea level)

335 V rms

- Limitations are possible due to the used cable type -

#### Material And Plating

Piece Parts	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Insulator	PTFE	

**SMPM Plug (Male) Snap-On Connector Solder Attachment  
for RSR047, RSF047, DC-26.5 GHz VSWR 1.25, 26.5-40 GHz VSWR 1.40**

**SMP1EA50FD-0047A / 99**

**Mechanical Data**

Coupling mechanisms	Snap-on	
Mating Cycles	Mating with Smooth Bore	≥ 1000
	Mating with Limited Detent	≥ 500
	Mating with Full Detent	≥ 100
Center contact captivation	≥ 7 N	
Engagement Force	Smooth Bore	9 N max.
	Limited Detent	45 N max.
	Full Detent	68 N max.
Disengagement force	Smooth Bore	2.2 N min.
	Limited Detent	9 N min.
	Full Detent	22 N min.

**Environmental Data**

Temperature Range	-65°C to +155°C	
Thermal shock	MIL-STD-202, Meth. 107, Cond. B	
Vibration	MIL-STD-202, Meth. 204, Cond. D	
Shock	MIL-STD-202, Meth. 213, Cond. I	
Moisture Resistance	MIL-STD-202, Meth. 106	
RoHS	compliant	

**Suitable Cables**

RSR047, RSF047

**Packing**

Single or 100