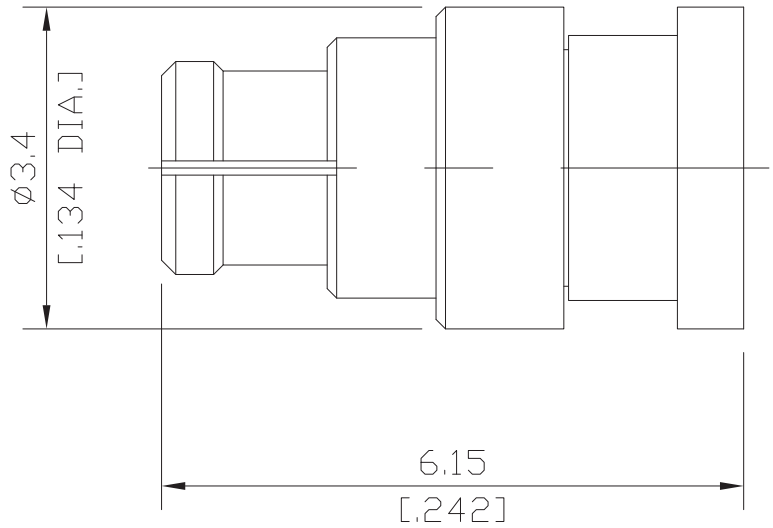
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

SMPM Jack (Female) Snap-On Connector Solder Attachment for .085, .086, RG405, DC-26.5 GHz VSWR 1.25, 26.5-40 GHz VSWR 1.40

SMPM2E50-0085A / 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 (≥ 19.08 dB) DC to 26.5 GHz	≤ 1.40 (≥ 15.56 dB) 26.5 to 40 GHz
Insertion Loss	≤ 0.1 x √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	

Rosnol RF/Microwave Technology Co., Ltd.
www.rosnol.com; info@rosnol.com
Phone: +886-3-463-5095 / Fax: +886-3-463-5952
N-CAGE Code: SFKK0 / ISO9001 Certified

ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

SMPM Jack (Female) Snap-On Connector Solder Attachment for .085, .086, RG405, DC-26.5 GHz VSWR 1.25, 26.5-40 GHz VSWR 1.40

SMPM2E50-FD0085A / 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

.085, .086, RG405

Packing

Single or 100

Rosnol RF/Microwave Technology Co., Ltd.
www.rosnol.com; info@rosnol.com
Phone: +886-3-463-5095 / Fax: +886-3-463-5952
N-CAGE Code: SFKK0 / ISO9001 Certified