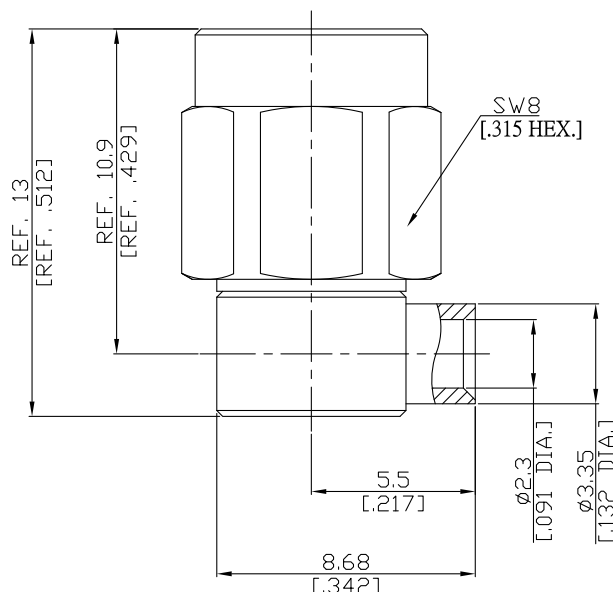


SMA Plug (Male) Right Angle Connector Solder/Contact Pin Solder Attachment
for RSR-085, RSF-085, EF405, RG405 DC-18GHz VSWR1.20

SMA1E59-0085B / 111



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

According to

IEC 60169-15, MIL-STD-348B/310

Electrical Data

Impedance	50 Ω	
Frequency	DC to 18 GHz	
VSWR (Return Loss)	≤ 1.20 (≥ 20.83 dB)	
Insertion Loss	≤ 0.04 x √F (GHz) dB	
Insulation Resistance	≥ 5 GΩ	
Center Contact Resistance	≤ 3 mΩ	
Outer Contact Resistance	≤ 2 mΩ	
Test Voltage	1000 V rms	
Working Voltage	480 V rms	
Power handling (at 20 °C, sea level)	≥ 100 W @ 1 GHz	≤ 200 W @ 2 GHz

- Limitations are possible due to the used cable type -

Material And Plating

Piece Parts	Material	Plating
Centre contact	Brass	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Body	Brass	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Ferrule	Brass	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Rev.:
Date: 12/7/2020

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SMA Plug (Male) Right Angle Connector Solder/Contact Pin Solder Attachment for RSR-085, RSF-085, EF405, RG405 DC-18GHz VSWR1.20

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Mechanical Data

Coupling Mechanisms	Screw-Lock
Mating Cycles	≥ 500
Coupling Nut Retention	≥ 270 N
Center contact captivation: axial	≥ 27 N
Coupling Test Torque	≤ 1.7 Nm
Recommended Torque	0.8 Nm to 1.1 Nm
Centre Contact	Soldered
Cable Entry	Soldered

Environmental Data

Temperature Range	-65°C to +165°C
Thermal Shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition I
Moisture Resistance	MIL-STD-202, Method 106
RoHS	compliant

Suitable Cables

RSR-085, RSF-085, EF405, RG-405, BELDEN 1671A

Weight

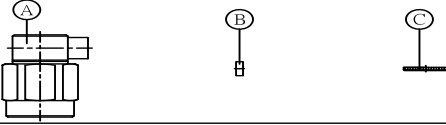
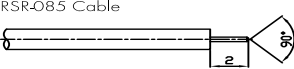
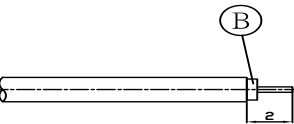
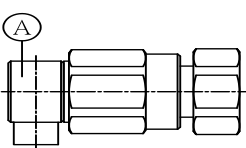
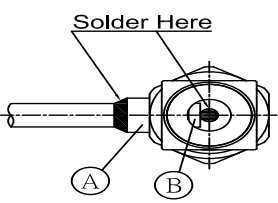
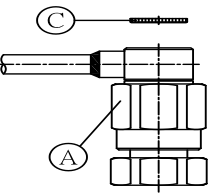
N/A

Packing

Single or 100

**SMA Plug (Male) Right Angle Connector Solder/Contact Pin Solder Attachment
for RSR-085, RSF-085, EF405, RG405 DC-18GHz VSWR1.20**

SMA1E59-0085B / 111

Connector Type:	SMA1E59-0085B/111, SMA1E59-0085B/11X	Inner Conductor Contact:	Soldered
Suitable Cable:	Rosnol RSR-085, RSF-085, EF405 Cable .085, .086, RG405 Cable	Outer Conductor Contact:	Soldered
Parts List of Connector: 			
Assembly Steps:			
Picture	Process	Attention/Check	Tools Required
RSR-085 Cable  RSF-085 Cable 	For Semi-Rigid and Semi-Flexible Prepare cable according to diagram. Form tip of inner conductor to 90° cone.	Cut cable end perpendicular to cable axis. Do not damage center contact, dielectric and braid.	Blade Scissor Diagonal cutting pliers
EF405 Flexible Cable  	For Flexible Cable Dive the on length cutted cable in flux and tinned. Cut in jacket until screen. Remove jacket. Remove cable dielectric and tinned braid according to diagram. Form tip of inner conductor to 90° cone.	The solder must flow at behind for min. 11 mm. If the cable does not fit into the cable entry, use a diagonal cutting pliers to calibrate the outer contact.	Blade Scissor Diagonal cutting pliers
	Slide dielectric "B" over inner conductor.		
	Screw locator tool "LT-SMA2A/X" to connector body "A", fix connector in a small bench vice.		Locator tool: LT-SMA2A/X
	Push prepared cable into connector body "A" until stop. Solder cable to connector body "A" according to diagram. Solder inner conductor to contact pin according to diagram.	Avoid excessive heat. Promptly swap soldered area with alcohol to cool joint and remove any residual flux.	Locator tool: LT-SMA2A/X Solder iron Solder Alcohol
	Place cover "C" on rear aperture of connector body "A". Press cover "C" into body "A". Remove locator tool LT-SMA2A/X and check interface dimension.		Soft hammer Small press or a small bench vice