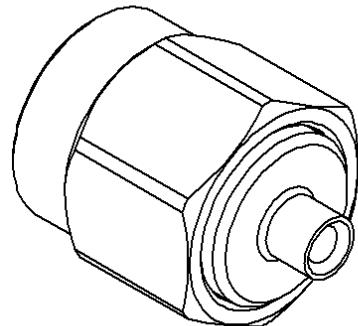
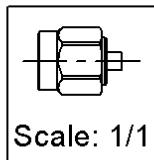
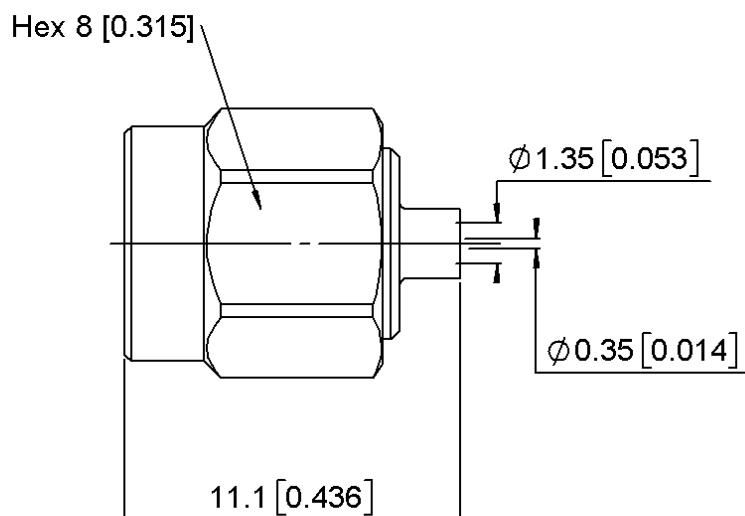


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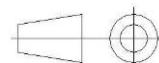
ISSUE 23-02-18A

SERIES SMA

PART NUMBER R125061027



All dimensions are in mm. Tolerances according ISO 2768 m-H



COMPONENTS	MATERIALS	PLATING ( $\mu\text{m}$ )
Body	<b>BERYLLIUM COPPER</b>	<b>BBR</b>
Center contact	<b>BERYLLIUM COPPER</b>	<b>GOLD OVER COPPER</b>
Outer contact		
Insulator	<b>PTFE</b>	
Gasket	<b>SILICONE RUBBER</b>	
Others parts	<b>BERYLLIUM COPPER</b>	
-	-	
-	-	

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### PACKAGING

Standard	Unit	Other
<b>100</b>	<b>Contact us</b>	<b>Contact us</b>

### ELECTRICAL CHARACTERISTICS

Impedance	<b>50</b>	Ω
Frequency	<b>0-18</b>	GHz
VSWR	<b>1.07</b>	+ <b>0.0080</b>
Insertion loss	<b>0.03</b>	√F(GHz) dB Maxi
RF leakage	- (	<b>90</b> - F(GHz) dB Maxi
Voltage rating	<b>335</b>	Veff Maxi
Dielectric withstanding voltage	<b>750</b>	Veff mini
Insulation resistance	<b>5000</b>	MΩ mini

### MECHANICAL CHARACTERISTICS

Center contact retention		
Axial force – Mating End	<b>N/A</b>	N mini
Axial force – Opposite end	<b>N/A</b>	N mini
Torque	<b>N/A</b>	N.cm mini
Recommended torque		
Mating	<b>100</b>	N.cm
Panel nut	<b>N/A</b>	N.cm
Clamp nut	<b>N/A</b>	N.cm
A/F clamp nut	<b>0.0000</b>	mm
Mating life	<b>500</b>	Cycles mini
Weight	<b>2.3300</b>	g

### ENVIRONMENTAL

Operating temperature	<b>-65/+165</b>	°C
Hermetic seal	<b>N/A</b>	Atm.cm3/s
Panel leakage	<b>N/A</b>	

### SPECIFICATION

### CABLE ASSEMBLY

Stripping	a	b	c	d	e	f
mm	<b>3.17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Assembly instruction:

Recommended cable(s)

### **0.047 NON-MAGNETIC**

Characteristics indicated on this data sheet are those that can be achieved with the highest performance cable. Intrinsic limitations of the cable may diminish the performance of the assembly

Cable retention

- pull off  
- torque

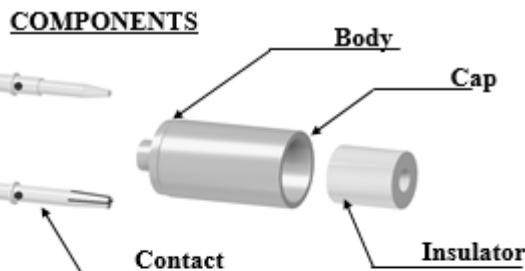
**45** N mini  
**N/A** N.cm

### TOOLING

Part Number	Description	Hexagon
R282730040	INSULATOR MOUNTING TOOL	
R282744220	SOLDERING POSITIONER(CENTER CONTACT)	
R282857000	CONTROLE GAUGE	
R282862060	CONTROL GAUGE	
R282740000	SOLDERING MOUNTING	

### OTHER CHARACTERISTICS

**DISTORTION OF MAGNETIC FIELD <0.5ppm**  
**AT Bo=1.5 TESLA**



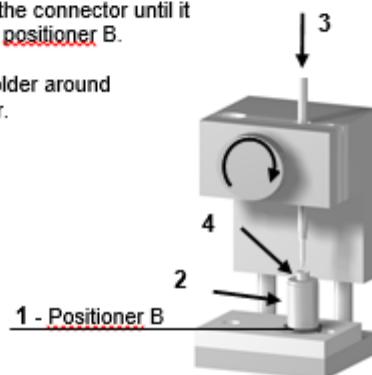
**STRIPPING DIMENSIONS**


**1**

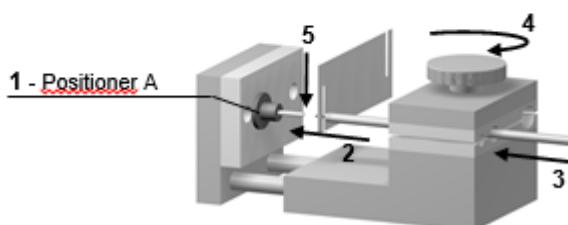
Strip the cable.  
Trim the cable inner conductor.  
Clean the cable.


**3**

After cooling, remove the assembly from the jig.  
Screw the **positioner B** onto the assembly jig.  
Slide the cable into the connector until it bottoms against the **positioner B**.  
Tighten.  
Put three rings of solder around the cable and solder.


**2**

Mount the **positioner A**.  
Slide the centre contact into the **positioner A**.  
Insert the solder gauge between the centre contact and the cable.  
Tighten.  
Solder the centre contact.


**4**

Screw dielectric insert tool onto the connector and insert the insulator with the dielectric plunger.

