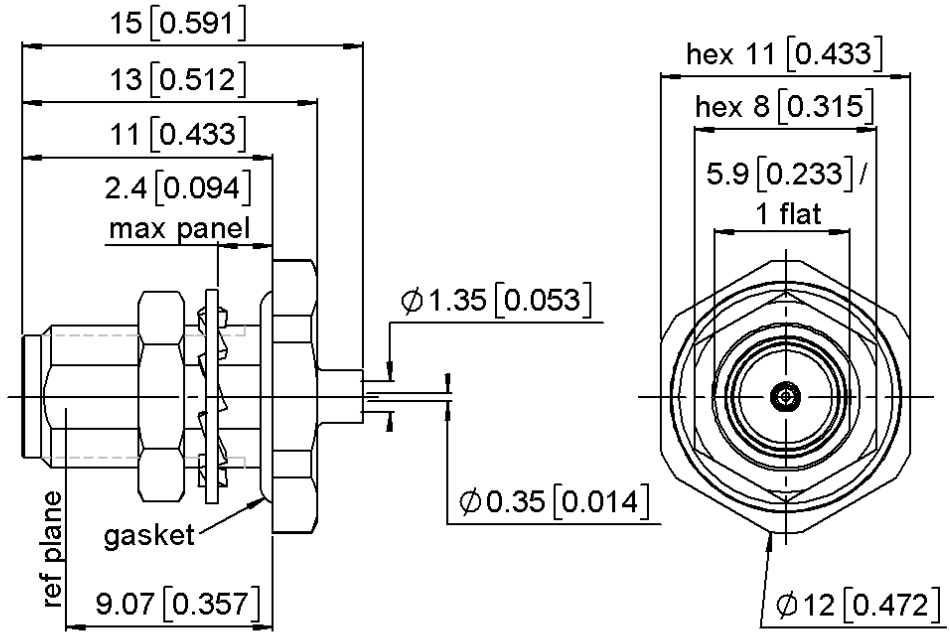
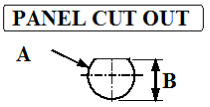
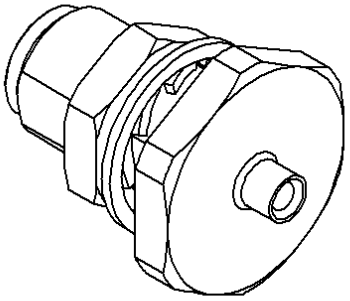
PAGE **1/3**	ISSUE **23-02-18A**	SERIES **SMA**	PART NUMBER **R125328117**

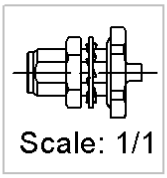


PANEL CUT OUT

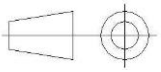


	mm	
	Maxi	mini
A	6.5	6.4
B	6.15	6





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



COMPONENTS	MATERIALS	PLATING (µm)
Body	**BERYLLIUM COPPER**	**BBR**
Center contact	**BERYLLIUM COPPER**	**GOLD OVER COPPER**
Outer contact		
Insulator	**PTFE**	
Gasket	**SILICONE RUBBER**	
Others parts	**BERYLLIUM COPPER**	**BBR**
-	-	-
-	-	-

PACKAGING

Standard	Unit	Other
100	**Contact us**	**Contact us**

ELECTRICAL CHARACTERISTICS

Impedance			**50**	Ω
Frequency			**0-18**	GHz
VSWR	***1.15**	**+**	**0.0100**	x F(GHz) Maxi
Insertion loss			***0.05**	√F(GHz) dB Maxi
RF leakage	- (		**90**	- F(GHz)) dB Maxi
Voltage rating			**335**	Veff Maxi
Dielectric withstanding voltage			**750**	Veff mini
Insulation resistance			**5000**	MΩ mini

MECHANICAL CHARACTERISTICS

Center contact retention		
Axial force – Mating End	**N/A**	N mini
Axial force – Opposite end	**N/A**	N mini
Torque	**N/A**	N.cm mini
Recommended torque		
Mating	**N/A**	N.cm
Panel nut	**150**	N.cm
Clamp nut	**N/A**	N.cm
A/F clamp nut	**0.0000**	mm

Mating life	**500**	Cycles mini
Weight	**3.7500**	g

ENVIRONMENTAL

Operating temperature	**-65/+165**	°C
Hermetic seal	**N/A**	Atm.cm3/s
Panel leakage	**IP67**	

SPECIFICATION

CABLE ASSEMBLY

Stripping	a	b	c	d	e	f
mm	**3.17**	**0**	**0**	**0**	**0**	**0**

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

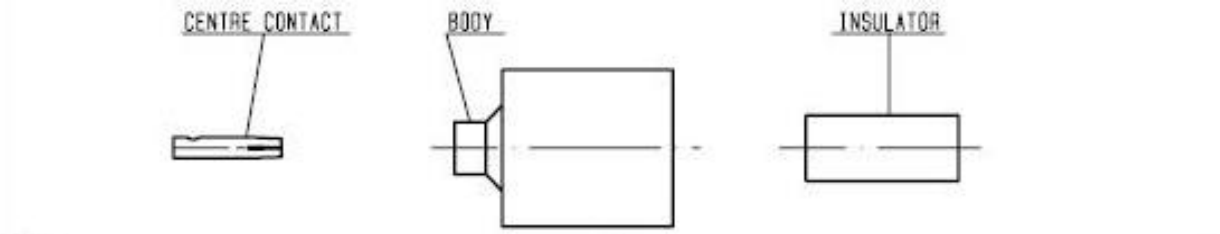
- pull off	**45**	N mini
- torque	**N/A**	N.cm

TOOLING

Part Number	Description	Hexagon
R282063000	POINTER GAUGE	
R282120000	SMA BOX SOLDER TYPE	
R282730043	INSULATOR MOUNTING TOOL	
R282744010	SOLDERING POSITIONER (BODY)	
R282744220	SOLDERING POSITIONER(CENTER CONTACT)	
R282862060	CONTROL GAUGE	
R282914010	DIELETRIC RECESS GAUGE	
R282915010	DIELECTRIC RECESS TOOL	

OTHER CHARACTERISTICS

***FROM DC TO 12.4GHz**
DISTORTION OF MAGNETIC FIELD <0.5ppm
AT Bo=1.5 TESLA



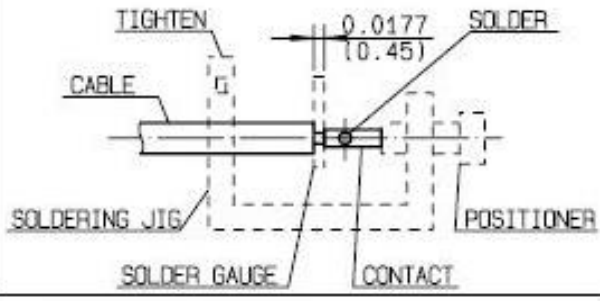
①

Take the tool kit : R282.120.000
Strip the dielectric of the cable .
Stripping tool cable : R282.051.000
Trimmer : R282.063.000
Clean the cable .
-

Stripping	a	b	c	d	e
inch	0.125	0	0	0	0
mm	3.17				

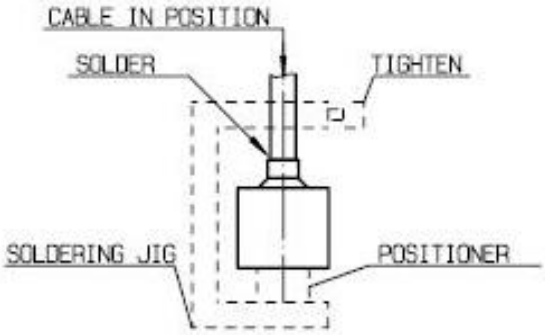
②

Screw the positioner R282.744.220 onto the soldering jig R282.740.000
Slide contact into positioner .
Insert solder gauge R282.862.060 between contact and cable .
Tighten and solder the contact .



③

After cooling remove cable assembly from the jig .
Screw positioner R282.744.010 into the connector .
Slide cable into the connector until it bottoms againts positioner R282.744.010 .
Tighten .
Put 3 rings of solder around the cable and solder .



④

After cooling remove cable assembly from the jig .
Screw positioner cut R282.914.010
Cut the dielectric flush to clamp braid sleeve with tool R282.915.010.
Screw female dielectric insert tool onto connector and insert insulator with the dielectric plunger R282.730.043