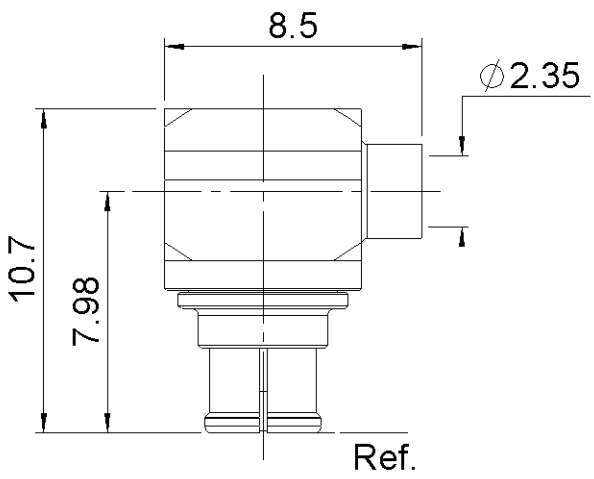
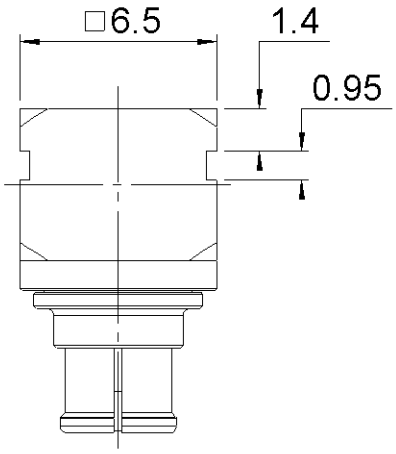
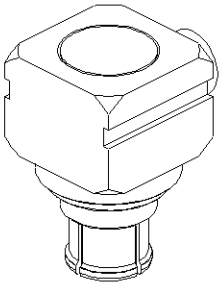
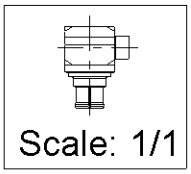
PAGE **1/3**	ISSUE **03-01-18A**	SERIES **SMP-MAX**	PART NUMBER **R222M80517**

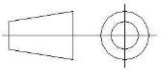








All dimensions are in mm. Tolerances according ISO 2768 m-H



COMPONENTS	MATERIALS	PLATING (µm)
Body	**BRASS**	**BBR**
Center contact	**BERYLLIUM COPPER**	**NPGR**
Outer contact	**BERYLLIUM COPPER**	**BBR**
Insulator	**PTFE**	
Gasket		
Others parts	**BRASS**	**BBR**
-	-	-
-	-	-

PACKAGING

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

ELECTRICAL CHARACTERISTICS

Impedance		**50**	Ω
Frequency		**0-6**	GHz
VSWR	**1.05** +	**0.0450**	x F(GHz) Maxi
Insertion loss		**0.065**	√F(GHz) dB Maxi
RF leakage	- (	**NA**	- F(GHz)) dB Maxi
Voltage rating		**335**	Veff Maxi
Dielectric withstanding voltage		**500**	Veff mini
Insulation resistance		**5000**	MΩ mini

MECHANICAL CHARACTERISTICS

Center contact retention		
Axial force – Mating End	**7**	N mini
Axial force – Opposite end	**7**	N mini
Torque	**NA**	N.cm mini
Recommended torque		
Mating	**NA**	N.cm
Panel nut	**NA**	N.cm
Clamp nut	**NA**	N.cm
A/F clamp nut	**0.0000**	mm
Mating life	**100**	Cycles mini
Weight	**1.8710**	g

ENVIRONMENTAL

Operating temperature	**-55/+165**	°C
Hermetic seal	**NA**	Atm.cm3/s
Panel leakage	**NA**	

SPECIFICATION

CABLE ASSEMBLY

Stripping	a	b	c	d	e	f
mm	**2.2**	**1.4**	**0**	**0**	**0**	**0**

Assembly instruction:

Recommended cable(s)

RG 405
KS 1

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	**130**	N mini
- torque	**NA**	N.cm

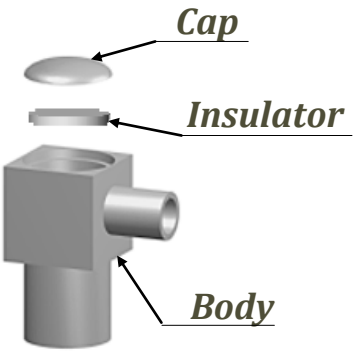
TOOLING

Part Number	Description	Hexagon
.	.	.

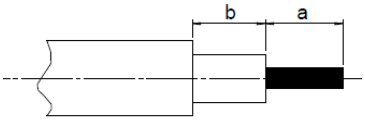
OTHER CHARACTERISTICS

Because of the BBR plating, the typical values of the outer contact resistance may slightly differ compared to the NPGR plated plugs.

COMPONENTS



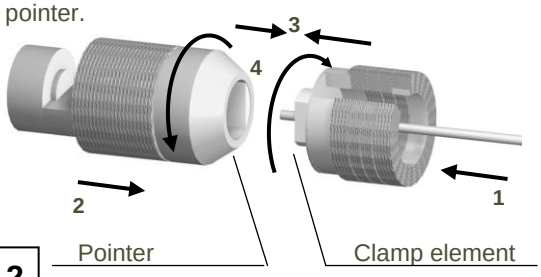
STRIPPING DIMENSIONS



We recommend a cable thermal preconditioning before assembly

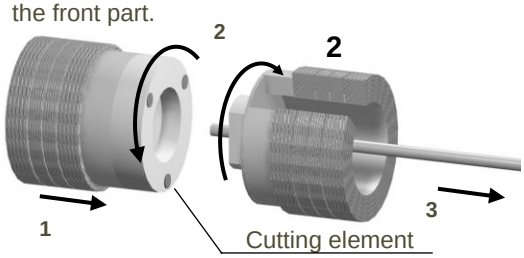
1

Insert the cable into the clamping element.
Present the pointer in front of the clamping element.
Push the cable until it stops, while holding the clamping element pushed on the hollow part of the pointer.



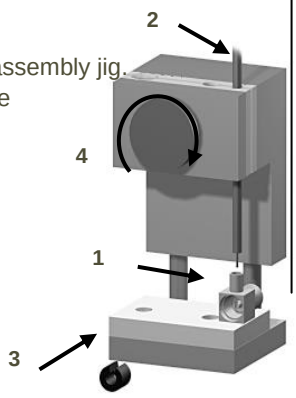
2

Present the cutting element in front of the cutting element.
Push and turn both elements, back part opposite to the front part.



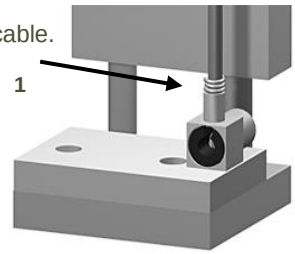
3

Insert the cable into the body.
Secure the positioner into the assembly jig.
Place the sub-assembly into the assembly jig.
Tighten.



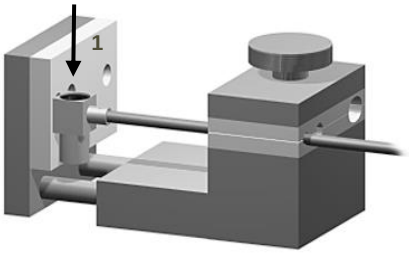
4

Put three rings of solder around the cable.
Solder the body onto the cable.



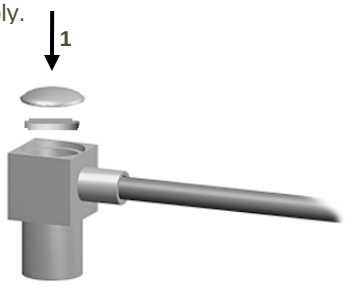
5

After cooling, remove the assembly from the jig.
Remove the positioner.
Solder the inner conductor.



6

Place the insulator and cap into the body.
Press on the cap flush or slightly below the surface of the body assembly.



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Radiall:

R222M80517