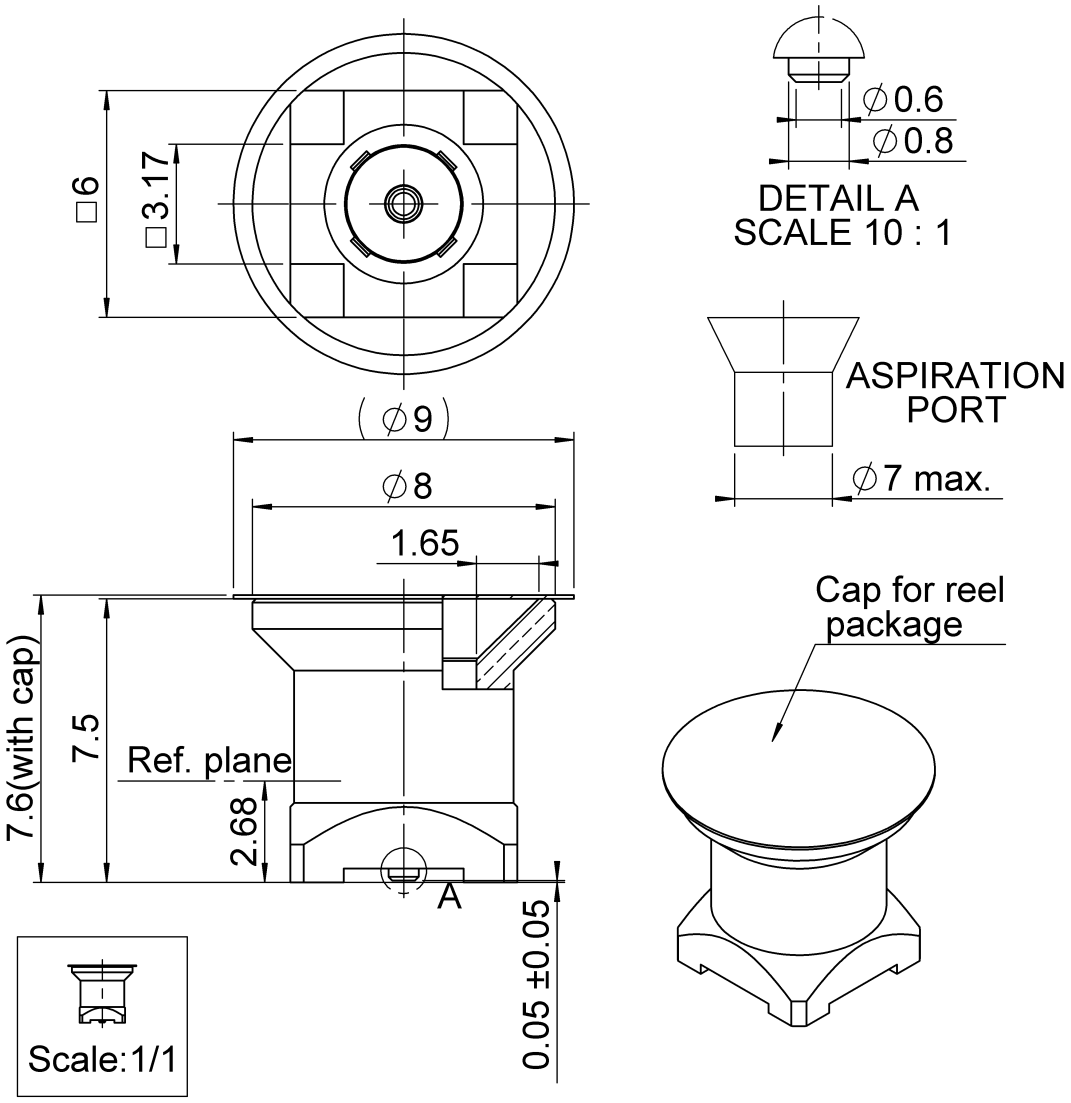
PAGE **1/5**	ISSUE **09-11-16E**	SERIES **SMP-MAX**	PART NUMBER **R222M00740**



All dimensions are in mm.

COMPONENTS	MATERIALS	PLATING (µm)
Body	**BRASS**	**NPGR**
Center contact	**BRASS**	**NPGR**
Outer contact		
Insulator	**PTFE/LCP/PEEK**	
Gasket		
Others parts	**KAPTON**	
-	**-**	**-**
-	**-**	**-**

PACKAGING

Standard	Unit	Other
400	**Contact us**	**Contact us**

ELECTRICAL CHARACTERISTICS

Impedance		**50**	Ω
Frequency		**0 - 10**	GHz
VSWR (max.) / Return Loss (max.)			

DC - 4 GHz	4 – 6 GHz
1.07 / -30dB	1.12 / -25dB

Insertion loss		**< 0.03***	√F(GHz) dB
RF leakage	- (	**NA**	- F(GHz)) dB Maxi
Voltage rating		**335**	Veff Maxi
Dielectric withstanding voltage		**1000**	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
Pull-in-range	**0.0000**	mm
Recommended torque		
Mating	**NA**	N.cm
Panel nut	**NA**	N.cm
Mating life	**100**	Cycles mini
Weight	**1.2720**	g

ENVIRONMENTAL

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

SPECIFICATION

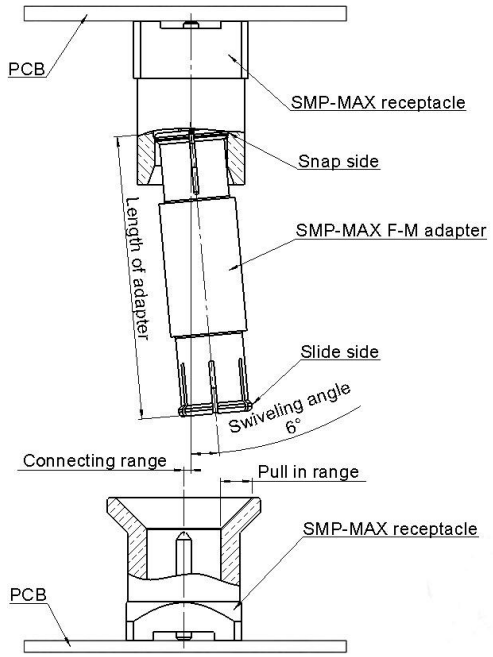
OTHER CHARACTERISTICS

Assembly instruction:

Others:
*Coaxial Transmission Line Only

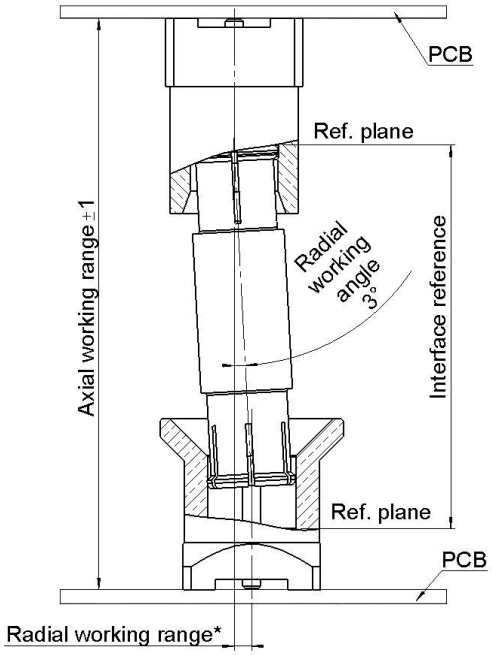
GENERAL DATA OF SMP-MAX SERIE

SMP-MAX connecting range



The connecting range represents the maximum misalignment during connection.
The swiveling angle is the maximum possible angle of the adapter in a snap receptacle.
A blind assembly is guaranteed if radial misalignment is smaller than connecting range. Otherwise a manual lead-in is necessary.

SMP-MAX radial and axial working range



Electrical performance is achieved when radial and axial misalignments are within their working ranges.
Radial working range = (length of the adapter) x Sinus(radial working angle).

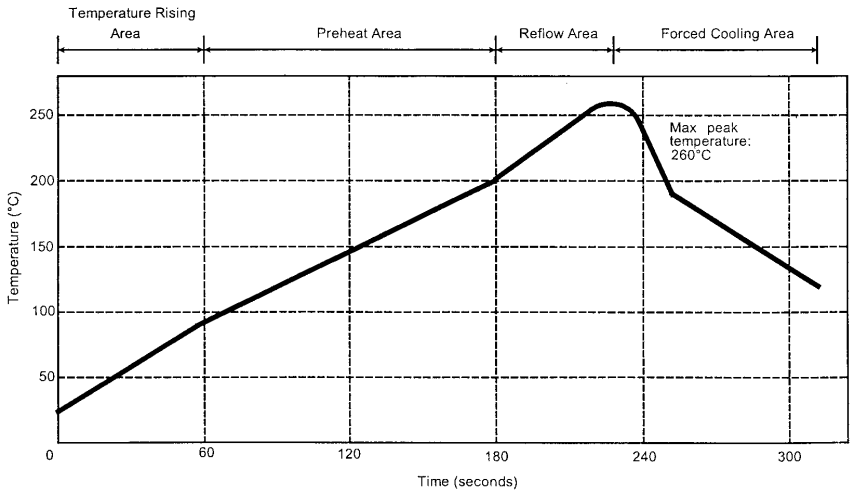
Typical RF performances for a set:
slide receptacle + adapter + snap receptacle (receptacles soldered on boards):

V.S.W.R / Return loss	Misalignment	DC - 3 GHz	3 - 6 GHz
	Radial 0° , Axial 0mm	<1.15/-23.9 dB	<1.25/-19.10 dB
	Radial 0° , Axial +/-1mm	<1.20/-20.8 dB	<1.35/-16.5 dB
	Radial 3° , Axial 0mm	<1.15/-23.1 dB	<1.25/-19.1 dB
	Radial 3° , Axial +/-1mm	<1.20/-20.8 dB	<1.35/-16.5 dB
Insertion loss	Misalignment	DC - 3 GHz	3 - 6 GHz
	Radial 0° , Axial 0mm	<0.10 dB	<0.15 dB
	Radial 0° , Axial +/-1mm	<0.12 dB	<0.25 dB
	Radial 3° , Axial 0mm	<0.10 dB	<0.15 dB
	Radial 3° , Axial +/-1mm	<0.12 dB	<0.25 dB
handling power	>300W@2.7GHz at 25°C; >200W@2.7GHz at 85°C		

SOLDER PROCEDURE

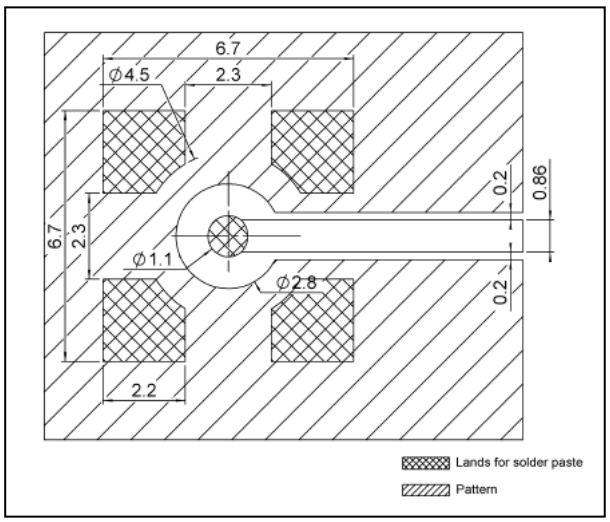
1. Deposit solder paste 'SnAg4Cu0.5' on mounting zone by screen printing application. We recommend a low residue flux. We advise a thickness of 150 micromm (5.850 microinch). Verify that the edges of the zone are clean.
2. Placement of the receptacle on the mounting zone with an automatic machine of 'pick and place' type. A video camera is recommended for positioning of the component. Adhesive agents must not be used on the receptacle.
3. This process of soldering has been tested with convection oven .Below please find, the typical profile to use.
4. The cleaning of printed circuit boards is not obliged.
5. Verification of solder joints and position of the component by visual inspection

TEMPERATURE PROFILE



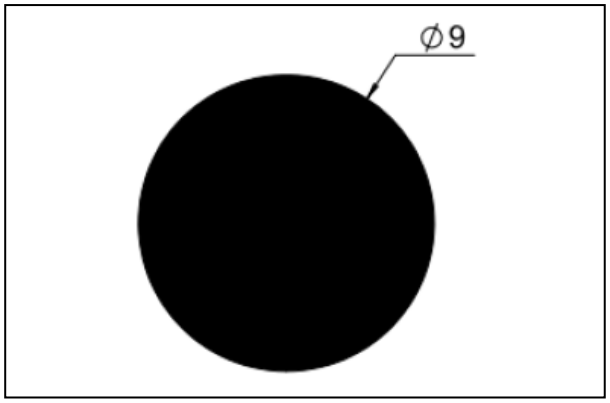
Parameter	Value	Unit
Temperature rising Area	1 - 4	°C/sec
Max Peak Temperature	260	°C
Max dwell time @260°C	10	sec
Min dwell time @235°C	20	sec
Max dwell time @235°C	60	sec
Temperature drop in cooling Area	-1 to - 4	°C/sec
Max dwell time above 100°C	420	sec

PCB

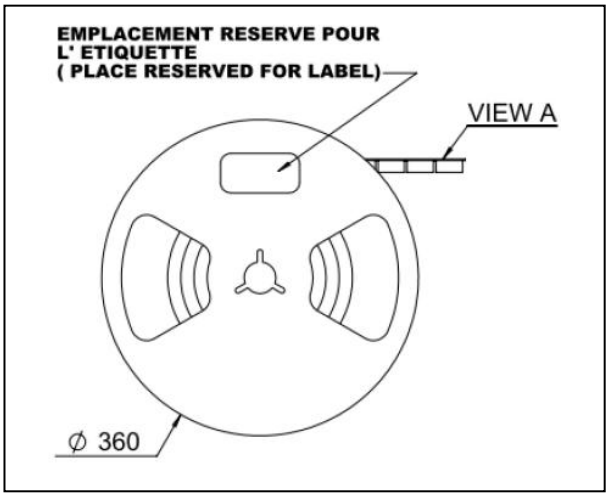


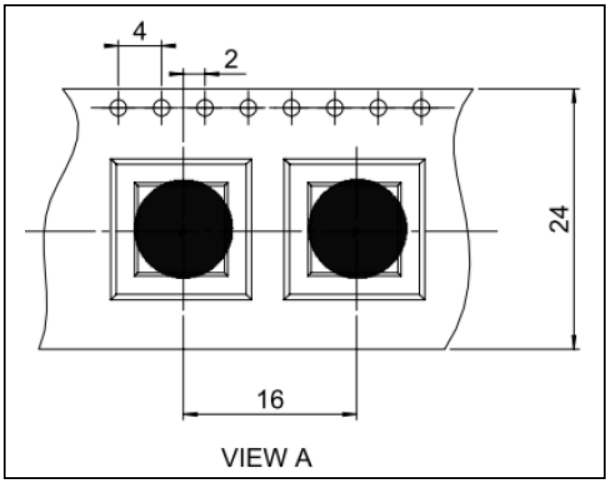
NOTE: Due to the potential large variation of performances depending on PCB and line parameters, we recommend the user to process a RF analyze of the connector mounted on his PCB.

SHADOW OF RECEPTACLE FOR VIDEO CAMERA



PACKAGE





X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for RF Connectors / Coaxial Connectors ***category:***

Click to view products by Radiall ***manufacturer:***

Other Similar products are found below :

8915-1511-000 89674-0827 6001-7071-019 6002-7051-003 6002-7551-202 6059674-1 619550-1 630059-000 M39030/3-01N 6500-7071-046 6769 CX050L2AQ 7002-1541-010 7002-1542-011 7004-1512-000 7009-1511-004 7010-1511-000 7029-1511-060 7101-1541-010 7101-1571-002 7145-1521-002 7203-1571-003 7209-1511-011 7210-1511-015 7210-1511-019 73137-5015 73216-2241 73404-2300 7405-1521-005 7405-1521-802 8527 8547 FS11V 877931 8808-1511-001 9049-9513-000 9074-9513-000 9101-9573-002 910A205F 9130-9573-002 PL11SC-026 PL375-33 PL40-5 PL74C-221 PL75MC-217 PL803-7 980-8666-005 1200690078 1-201144-1 R107003010W