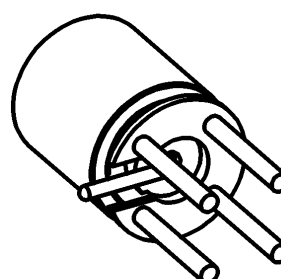
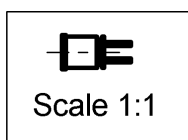
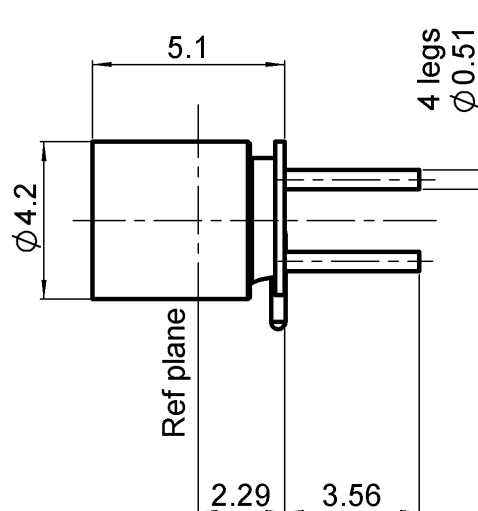
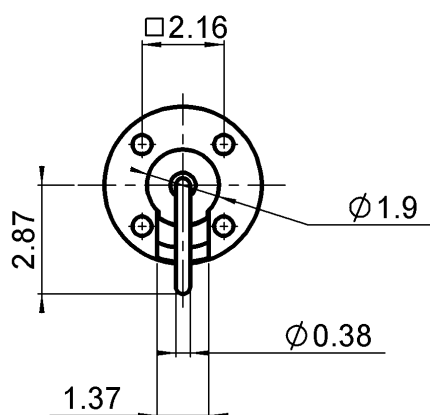


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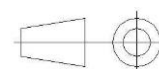
ISSUE **04-01-17C**

SERIES **SMP**

PART NUMBER **R222428000**



All dimensions are in mm.



COMPONENTS	MATERIALS	PLATING (μm)
Body	<b>STAINLESS STEEL + BRASS</b>	<b>PASSIVATED + GOLD 0.5 OVER NICKEL 2</b>
Center contact	<b>BERYLLIUM COPPER</b>	<b>GOLD 1.27 OVER NICKEL 1.27</b>
Outer contact		
Insulator	<b>PTFE</b>	
Gasket		
Others parts	-	-
-	-	-
-	-	-

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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>0-40*</b>	GHz
VSWR***	<b>1.15**</b>	<b>+</b>	<b>0,0000</b> x F(GHz) Maxi
Insertion loss		<b>0.12*</b>	√F(GHz) dB Maxi
RF leakage	- (	<b>NA</b>	- F(GHz) dB Maxi
Voltage rating		<b>335</b>	Veff Maxi
Dielectric withstanding voltage		<b>500</b>	Veff mini
Insulation resistance		<b>5000</b>	MΩ mini

### ENVIRONMENTAL

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

### MECHANICAL CHARACTERISTICS

Center contact retention			
Axial force – Mating End	<b>6.8</b>	N mini	
Axial force – Opposite end	<b>6.8</b>	N mini	
Torque	<b>NA</b>	N.cm mini	
Recommended torque			
Mating	<b>NA</b>	N.cm	
Panel nut	<b>NA</b>	N.cm	
Mating life	<b>100</b>	Cycles mini	
Weight	<b>0,3500</b>	g	

### SPECIFICATION

### OTHER CHARACTERISTICS

Assembly instruction:

Others:

**Compliant with MIL-STD-348**

**\*Coaxial Transmission Line Only**

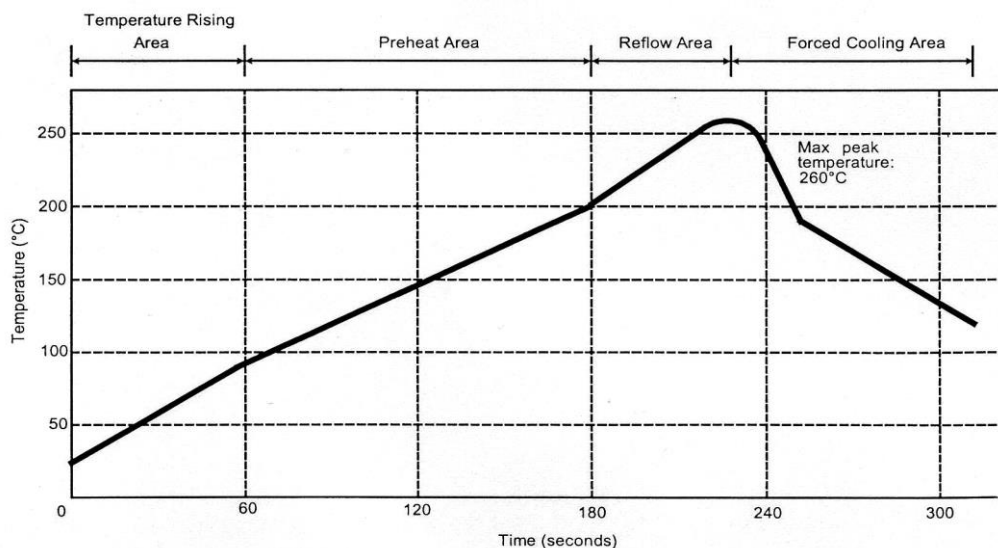
**\*\*DC-12.4 Ghz (Coaxial Transmission Line Only)**

**\*\*\*Performance strongly depends on layout and PCB material**

## SOLDER PROCEDURE

- Deposition of solder paste 'Sn Ag4 Cu0.5' on mounting zone by screen printing application.  
We recommend a low residue flux.  
We advise a thickness of 150 microns ( 5.85 microinch ). Verify that the edges of the zone are clean.
- Placement of the receptacle on the mounting zone with an automatic machine of 'pick and place' type.  
Video camera is recommended for the positioning of the component. Adhesive agents must not be used on the receptacle.
- Soldering by infra-red reflow.  
Below, please find the typical profile to use.
- Cleaning of printed circuit boards.
- Checking of solder joints and position of the component by visual inspection.

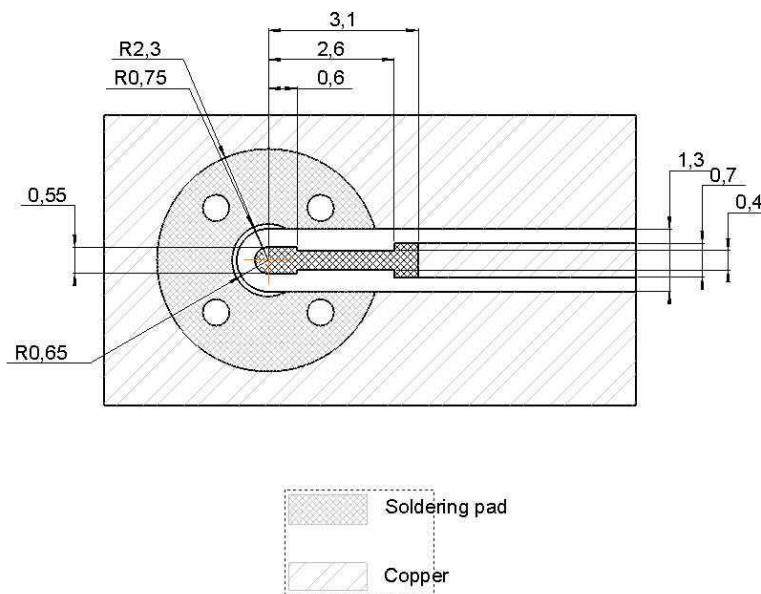
### TEMPERATURE PROFILE



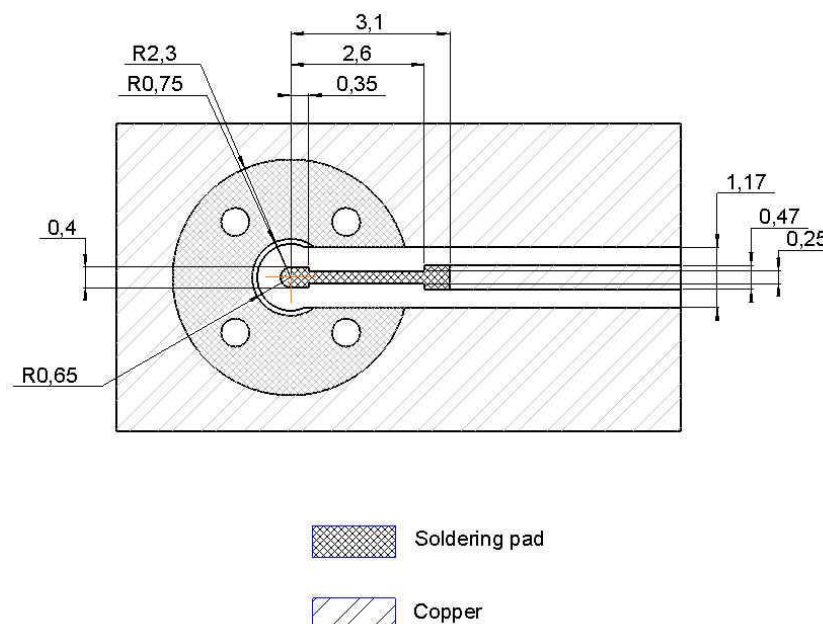
Parameter	Value	Unit
Temperature rising Area	1 - 4	°C/sec
Max Peak Temperature	260	°C
Max dwell time @260°C	10	sec
Min dwell time @235°C	20	sec
Max dwell time @235°C	60	sec
Temperature drop in cooling Area	-1 to - 4	°C/sec
Max dwell time above 100°C	420	sec

## RECOMMENDED PAD DIMENSIONS:

Substrate: RT5880 thickness 0.254mm, with copper layer 35 $\mu$ m on both sides :  
Add vias between both sides along upper ground plane according to engineering practise



Substrate: RO4350 thickness 0.254mm, with copper layer 35μm on both sides :  
Add vias between both sides along upper ground plane according to engineering practise



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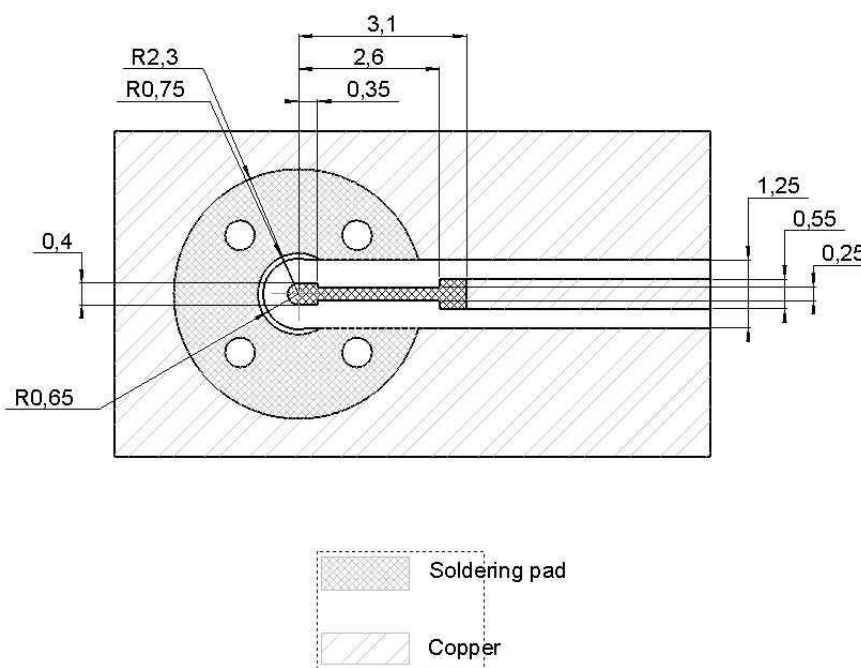
ISSUE 04-01-17C

SERIES SMP

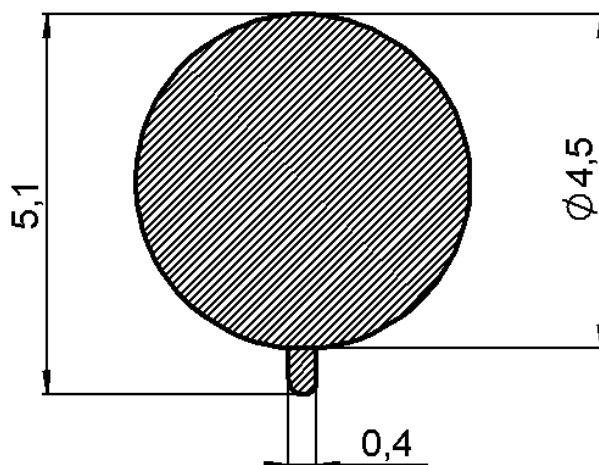
PART NUMBER R222428000

Substrate: RO6002 thickness 0.254mm, with copper layer 35µm on both sides :

*Add vias between both sides along upper ground plane according to engineering practise*



### SHADOW FOR VIDEO CAMERA



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