

DATA SHEET

Cable connector



Part Number

5011.SMA.PRC.06.111

Description

SMA, Plug, Right Angle, Cable Mount

Interface Standard

IEC 60169-15

Suitable Cable

RG174/U, RG188/U, RG316/U



Electrical Data

Impedance	50	Ω		
Max. operating frequency	3	GHz	cable limited	
Frequency range	DC to 1GHz	1 to 2.2GHz	2.2 to 3GHz	3 to 6GHz
VSWR	≤ 1.02	≤ 1.02	≤ 1.03	$\leq --$
Insertion loss	$0.07 \sqrt{f(\text{GHz})}$	dB		
Insulation resistance	≥ 5000	$M\Omega$		
Center contact resistance	≤ 3	$m\Omega$		
Outer contact resistance	≤ 2.5	$m\Omega$		
Dielectric withstanding voltage	≥ 750	Vrms @ 50Hz	cable limited	
Working voltage	≤ 350	Vrms @ 50Hz	cable limited	

Mechanical Data

Mating cycles	≥ 500	
Center contact axial force	≥ 22	N
Center contact axial torque	≥ 0.03	Nm
contact gauge ret. Force	≥ 0.28	N
Center contact	solder	
Outer contact	clamp	
Cable retention force		
-RG174/U	≥ 43.5	N
-RG188/U, RG316/U	≥ 54.4	N

Environmental Data

Operating temperature	restricted by cable and/or silicone used
2002/95/EC (ROHS)	compliant
Sealing	N/A
Thermal shock	MIL-STD-202 Method107, condition B
Moisture resistance	MIL-STD-202 Method106
Corrosion resistance	MIL-STD-202 Method101, condition B
Vibration	MIL-STD-202 Method204, condition D
Shock	MIL-STD-202 Method213, condition I

Material Data

<u>Piece Parts</u>	<u>Material</u>	<u>Surface Plating</u>
center contact	Brass	Au
body	Brass	Au
insulator	PTFE	
nut	Brass	Au
O-ring	silicone rubber	
spring ring	Stainless steel	
ferrule	Brass	Au
lid	Brass	Au

Zeeteq the technoledge connecting people

No. 51 Sci.-Tech Industry Park, Huoju
Road, SND, Suzhou, China
Zip: 215009

Tel: +86 512 6807 8808
Fax: +86 512 6807 8818
www.zeeteq.com

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