

DATA SHEET

Cable connector



Part Number

5012.SMA.PRC.07.111

Description

SMA, Plug, Right Angle, Cable Mount

Interface Standard

IEC 60169-15

Suitable Cable

RG316/D



Electrical Data

Impedance	50	Ω		
Max. operating frequency	6	GHz	cable limited	
Frequency range	DC to 1GHz	1 to 2.2GHz	2.2 to 3GHz	3 to 6GHz
VSWR	≤ 1.02	≤ 1.03	≤ 1.07	≤ 1.22
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	≥ 1000	Vrms @ 50Hz	cable limited	
Working voltage	≤ 480	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		
-RG316/D	≥ 108.8	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

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