

DATA SHEET

Cable connector



Part Number

5009.SMA.PRC.03.141

Description

SMA, Plug, Right Angle, Cable Mount

Interface Standard

IEC 60169-15

Suitable Cable

RG402/U, UT141



Electrical Data

Impedance	50	Ω		
Max. operating frequency	18	GHz	connector limited	
Frequency range	DC to 1GHz	1 to 2.2GHz	2.2 to 3GHz	3 to 6GHz
VSWR	≤ 1.04	≤ 1.05	≤ 1.05	≤ 1.13
Insertion loss	$0.05 \sqrt{f(\text{GHz})}$	dB		
Insulation resistance	≥ 5000	M Ω		
Center contact resistance	≤ 3	m Ω		
Outer contact resistance	≤ 2.5	m Ω		
Dielectric withstanding voltage	≥ 1000	Vrms @ 50Hz	cable limited	
Working voltage	≤ 335	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	solder	
Cable retention force		
-RG402/U	≥ 100	N
-UT141	≥ 309.1	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	Stainless steel	Passivated
insulator	PTFE	
nut	Stainless steel	Passivated
O-ring	silicone rubber	
spring ring	Stainless steel	
lid	Brass	Au

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