

# DATA SHEET

## Cable connector



### Part Number

5010.SMA.PRC.05.111

### Description

SMA, Plug, Right Angle, Cable Mount

### Interface Standard

IEC 60169-15

### Suitable Cable

RG178/U, RG196/U



### Electrical Data

Impedance	50	$\Omega$		
Max. operating frequency	3	GHz	cable limited	
Frequency range	DC to 1GHz	1 to 2.2GHz	2.2 to 3GHz	3 to 6GHz
VSWR	$\leq 1.02$	$\leq 1.02$	$\leq 1.06$	$\leq --$
Insertion loss	$0.07 \sqrt{f(\text{GHz})}$	dB		
Insulation resistance	$\geq 5000$	$M\Omega$		
Center contact resistance	$\leq 3$	$m\Omega$		
Outer contact resistance	$\leq 2.5$	$m\Omega$		
Dielectric withstanding voltage	$\geq 500$	Vrms @ 50Hz	cable limited	
Working voltage	$\leq 170$	Vrms @ 50Hz	cable limited	

### Mechanical Data

Mating cycles	$\geq 500$	
Center contact axial force	$\geq 22$	N
Center contact axial torque	$\geq 0.03$	Nm
contact gauge ret. Force	$\geq 0.28$	N
Center contact	solder	
Outer contact	clamp	
Cable retention force		
-RG178/U	$\geq 32.7$	N
-RG196/U	$\geq 32.7$	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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