

DATA SHEET

Cable connector



Part Number

5141.SMB.PSC.07.111

Description

SMB, Plug, Straight,Cable

Interface Standard

IEC 169-10

Suitable Cable

RG316D/U



Electrical Data

Impedance	50	Ω		
Max. operating frequency	4	GHz	connector limited	
Frequency range	DC to 1GHz	1 to 2.2GHz	2.2 to 3GHz	3 to 4GHz
VSWR	≤ 1.05	≤ 1.07	≤ 1.08	≤ 1.12
Insertion loss	$0.05\sqrt{f(\text{GHz})}$	dB		
Insulation resistance	≥ 1000	$M\Omega$		
Center contact resistance	≤ 5	$m\Omega$		
Outer contact resistance	≤ 2.5	$m\Omega$		
Dielectric withstanding voltage	≥ 750	Vrms @ 50Hz	connector limited	
Working voltage	≤ 250	Vrms @ 50Hz	connector limited	

Mechanical Data

Mating cycles	≥ 500	
Center contact axial force	≥ 10	N
Center contact axial torque	≥ 0.02	Nm
Center contact	solder	
Outer contact	crimp	
Cable retention force		
-RG316D/U	≥ 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

Piece Parts	Material	Surface Plating
center contact	Brass	Au
outer contact	Brass	Au
insulator	PTFE	
ferrule	Brass	Au