

DATA SHEET

Cable connector



Part Number

5024.SMA.JSC.05.111

Description

SMA, Jack, bulkhead, Cable Mount

Interface Standard

IEC 60169-15

Suitable Cable

RG178B/U, RG196A/U



Electrical Data

Impedance	50	Ω	
Max. operating frequency	2.5	GHz	cable limited
Frequency range	DC to 1GHz	1 to 2.2GHz	2.2 to 2.5GHz
VSWR	≤ 1.05	≤ 1.08	≤ 1.12
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	≥ 500	Vrms @ 50Hz	cable limited
Working voltage	≥ 170	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	crimp	
Cable retention force		
RG178B/U	≥ 32.7	N
RG196A/U	≥ 32.7	N

Environmental Data

Operating temperature	restricted by cable and/or silicone used
2002/95/EC (ROHS)	compliant
Sealing	IP68 (IEC60529)
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
body	Brass	Au
body	Brass	Au
insulator	PTFE	
Ferrule	Brass	Au
disc	PTFE	
lock washer	Phosphor bronze	
nut	Brass	Au

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