

# DATA SHEET

## Cable connector



### Part Number

5004.SMA.JSC.07.111

### Description

SMA, Plug, Straight, Cable Mount

### Interface Standard

IEC 60169-15

### Suitable Cable

RG316/D



### Electrical Data

Impedance	50	$\Omega$	
Max. operating frequency	2.5	GHz	cable limited
Frequency range	DC to 1GHz	1 to 2.2GHz	2.2 to 2.5GHz
VSWR	$\leq 1.04$	$\leq 1.05$	$\leq 1.07$
Insertion loss	$0.05\sqrt{f(\text{GHz})}$	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	$\geq 1000$	Vrms @ 50Hz	cable limited
Working voltage	$\geq 480$	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	crimp	
Cable retention force		
RG316/U	$\geq 108.8$	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
insulator	PTFE	
nut	Brass	Au
Ferrule	Brass	Au
O-ring	silicone rubber	
spring ring	Stainless steel	

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