

Excellent Integrated System Limited

Stocking Distributor

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[Bel Fuse Inc.](#)
[142-9701-811](#)

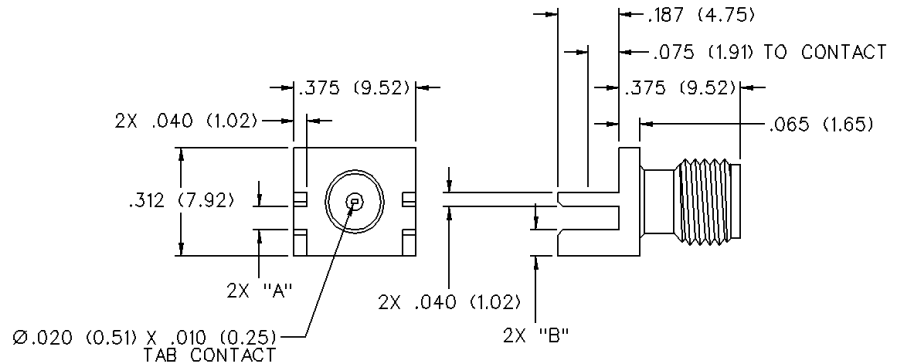
For any questions, you can email us directly:

sales@integrated-circuit.com

SMA Non-Magnetic RF Connectors

PC Mount

End Launch Jack Receptacle - Tab Contact



VSWR & FREQ. RANGE	BOARD THICKNESS	GOLD PLATED	"A"	"B"
VSWR: N/A 0-18 GHz	.062 (1.57)	142-9701-811	.068 (1.73)	.083 (2.11)

SPECIFICATIONS

ELECTRICAL RATINGS

Impedance: 50 ohms

Frequency Range: Flexible cable connectors 0-12.4 GHz
 Uncabled receptacles 0-18.0 GHz

VSWR: (f = GHz) Straight Cabled Connectors RA Cabled Connectors
 RG-316 1.15 + .02f 1.15 + .03f
 RG-58 1.15 + .01f 1.15 + .02f

Uncabled receptacles N/A

Working Voltage: (Vrms maximum)

Connectors for Cable Type Sea Level 70K Feet
 RG-316 250 65
 RG-58, uncabled receptacles 335 85

Dielectric Withstanding Voltage: (VRMS minimum at sea level)

Connectors for RG-316 750
 Connectors for RG-58, uncabled receptacles 1000

Corona Level: (Volts minimum at 70,000 feet)*

Connectors for RG-316 190
 Connectors for RG-58, uncabled receptacles 250

Insertion Loss: (dB maximum)

Straight flexible cable connectors $0.06 \sqrt{f(\text{GHz})}$, tested at 6 GHz
 Right angle flexible cable connectors $0.15 \sqrt{f(\text{GHz})}$, tested at 6 GHz
 Uncabled receptacles N/A

Insulation Resistance: 5000 megohms minimum

Contact Resistance: (milliohms maximum)

	Initial	After Environmental
Center contact (straight cabled connectors, uncabled receptacles) ...	3.0	4.0
Center contact (right angle cabled connectors)	4.0	6.0
Outer contact (all connectors)	2.0	N/A
Braid to body	0.5	N/A

RF Leakage: (dB minimum, tested at 2.5 GHz)

Flexible cable connectors -60 dB
 Uncabled receptacles N/A

RF High Potential Withstanding Voltage: (Vrms minimum, tested at 4 and 7 MHz)*

Connectors for RG-316 500
 Connectors for RG-58, uncabled receptacles 670

MECHANICAL RATINGS

Engagement Design: MIL-STD-348, Series SMA

Engagement/Disengagement Force: 2 inch-pounds maximum

Mating Torque: 7 to 10 inch-pounds

Coupling Proof Torque: 15 inch-pounds minimum

Coupling Nut Retention: 60 pounds minimum

Contact Retention: 6 lbs. minimum axial force (captivated contacts)
 4 inch-ounce minimum torque (uncabled receptacles)

Cable Retention:	Axial Force*(lbs)	Torque (in-oz)
Connectors for RG-316	20	N/A
Connectors for RG-58	40	N/A

*Or cable breaking strength whichever is less.

Durability: 500 cycles minimum

ENVIRONMENTAL RATINGS (Meets or exceed the applicable paragraph of MIL-C-39012)

Temperature Range: - 65°C to + 165°C

Thermal Shock: MIL-STD-202, Method 107, Condition B

Corrosion: MIL-STD-202, Method 101, Condition B

Shock: MIL-STD-202, Method 213, Condition I

Vibration: MIL-STD-202, Method 204, Condition D

Moisture Resistance: MIL-STD-202, Method 106