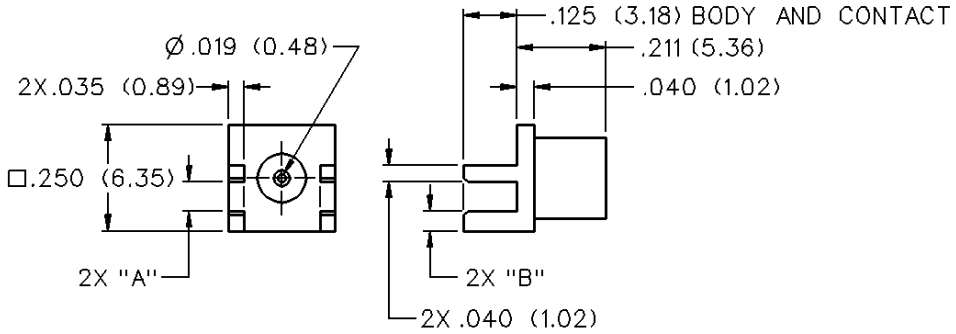
JOHNSON Components™

INCHES (MILLIMETERS)
CUSTOMER DRAWINGS AVAILABLE UPON REQUEST

MCX Non-Magnetic RF Connectors

PC Mount

End Launch Jack Receptacle - Round Contact



BOARD THICKNESS	GOLD PLATED	"A"	"B"
.062 (1.57)	133-9701-801	.068 (1.73)	.048 (1.22)

SPECIFICATIONS

ELECTRICAL RATINGS

Impedance: 50 Ohms

Frequency Range: 0-6 GHz

VSWR: (f = GHz)

	Straight Cabled Connectors	Right Angle Cabled Connectors
RG-316 cable	1.13 + .04f	1.07 + .04f
Uncabled receptacles	N/A	

Working Voltage: (Vrms maximum)

Connectors for Cable Type	Sea Level	70K Feet
RG-316	335	85

Dielectric Withstanding Voltage: (VRMS minimum at sea level)
Connectors for RG-316, uncabled receptacles 1000

Corona Level: (Volts minimum at 70,000 feet)
Connectors for RG-316, uncabled receptacles 250

Insertion Loss: (dB maximum, tested at 1 GHz)
Straight cable connectors ..... 0.1 dB
Right angle cable connectors ..... 0.2 dB
Uncabled receptacles ..... N/A

Insulation Resistance: 10,000 megohms minimum

Contact Resistance: (milliohms maximum)

	Initial	After Environmental
Center contact (straight cabled connectors, uncabled receptacles)	5.0	8.0
Center contact (right angle cabled connectors)	5.0	15.0
Outer contact	1.0	1.5
Braid to body	1.0	N/A

RF Leakage: (dB typical tested at 2.5 GHz)
Cable connectors ..... -55
Uncabled receptacles ..... N/A

RF High Potential Withstanding Voltage: (Vrms minimum, tested at 4 and 7 MHz)
Cabled connectors 700
Uncabled receptacles 600

MECHANICAL RATINGS

Engagement Design: Compatible with CECC 22220, Series MCX

Engagement Force: 5.6 pounds maximum axial force

Disengagement Force: 8 pounds maximum axial force, 1 pound min.

Contact Retention: 2.3 pounds min. axial force (captivated contacts)
1 inch-ounce min. torque (uncabled receptacles)

Cable Retention:	Axial Force* (pounds)	Torque (in-oz)
Connectors for RG316	20	N/A
Connectors for RG316DS	25	N/A

* or cable breaking strength whichever is less.

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

Durability: 500 cycles minimum

Temperature Range: - 65°C to + 165°C

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

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

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

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

Moisture Resistance: MIL-STD-202, Method 106