MCX 50 Ohm Right Angle PC Mount Jack Receptacle



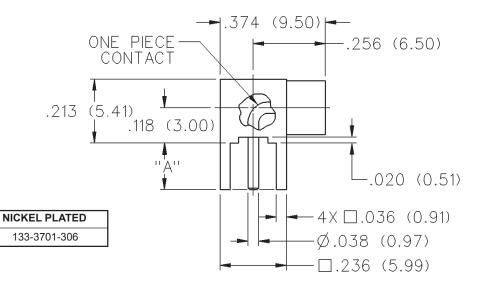
INCHES (MILLIMETERS)
CUSTOMER DRAWINGS AVAILABLE UPON REQUEST

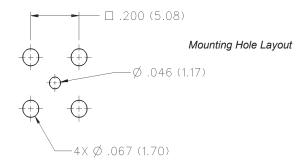


GOLD PLATED 133-3701-301

"A"

.155 (3.94)





MCX - 50 Ohm Connectors

Specifications



INCHES (MILLIMETERS)
CUSTOMER DRAWINGS AVAILABLE UPON REQUEST

ELECTRICAL RATINGS Impedance: 50 Ohms Frequency Range: Connectors	0-6 GHz			
Dummy loads	0-1 GHz			
VSWR: (f = GHz) Straight Cable	d Right Angle			
RG-178 cable	1 07 + 06f			
RG-316 and .086 semi-rigid cable 1.13 + .04f	1.07 + .04f			
Adapters	1.13 + .04f			
Uncabled receptacles, Dummy loads	N/A			
Working Voltage: (Vrms maximum)†				
Connectors for Cable Type Sea Lev RG-178	<u>/el 70K Feet</u>			
RG-178 250	65			
RG-316, .086 semi-rigid uncabled				
uncabled receptacles, adapters 335	85			
Dummy loads	N/A			
Dielectric Withstanding Voltage: (VRMS minir	num at sea level)			
Connectors for RG-178	750			
Connectors for RG-316, .086 semi-rigid,				
uncabled receptacles, adapters				
Dummy loads	N/A			
Corona Level: (Volts minimum at 70,000 feet)				
Connectors for RG-178	190			
Connectors for RG-316, .086 semi-rigid				
uncabled receptacles, adapters				
Dummy loads				
Insertion Loss: (dB maximum, tested at 1 GHz)				
Straight cable connectors and adapters				
Right angle cable connectors				
Uncabled receptacles, dummy loadsN/A				
Insulation Resistance: 10,000 megohms minin				
Contact Resistance: (milliohms maximum)	After			
0	Initial Environmental			
Center contact (straight cabled connectors,	F.O			
uncabled receptacles and adapters)	5.0 8.0			
Center contact (right angle cabled connectors)				
Outer contact				
Braid to body (gold plated connectors)				
Braid to body (nickel plated connectors)	2.5 N/A			
RF Leakage: (dB typical tested at 2.5 GHz)	בב אם			
Cable connectors				
oncabled receptacies and adapters, duffithy it	Jaus N/A			

Avoid user injury due to misapplication. See safety advisory definitions on page 2.

** All gold plated parts include a .00005" min. nickel underplate barrier layer.

RF High Potential Withstanding Voltage: (Vrms minimum, tes	ted at 4
and 7 MHz)	
0 t f D0470	E00

Connectors for RG178	500
Connectors for RG316 and adapters	700
.086 semi-rigid	670
Uncabled receptacles	
Dummy loads	
_*	

Power Rating (Dummy Load): 0.5 watt @ +25°C, derated to 0.25 watt @ +125°C

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*	Iorque
	(pounds)	(in-oz)
Connectors for RG178	10	N/A
Connectors for RG316	20	N/A
Connectors for RG316DS	25	N/A
Connectors for .086 semi-rigid	30	16
* or cable breaking strength which		

ENVIRONMENTAL RATINGS (Meets or exceed the applicable paragraph of MIL-C-39012)Durability: 500 cycles minimum

Temperature Range: Connectors - 65°C to + 165°C Dummy loads - 65°C to + 125°C

Thermal Shock: MIL-STD-202, Method 107, Condition F (N/A dummy loads)

Corrosion: MIL-STD-202, Method 101, Condition B (N/A dummy loads) Shock: MIL-STD-202, Method 213, Condition B (N/A dummy loads) Vibration: MIL-STD-202, Method 204, Condition B (N/A dummy loads) Moisture Resistance: MIL-STD-202, Method 106 (N/A dummy loads) MATERIAL SPECIFICATIONS

Bodies: Brass per QQ-B-626 or zinc per ASTM B86-71, gold plated** per MIL-G-45204 .00001" min or nickel plated per QQ-N-290 or bright tin plated

Contacts: Male - brass per QQ-B-626, gold plated per MIL-G-45204 .00003" min.

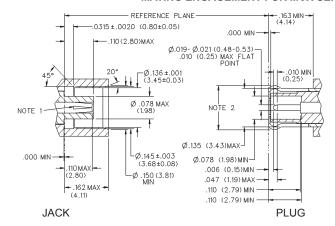
Female - beryllium copper per QQ-C-530, gold plated per MIL-G-45204 .00003" min.

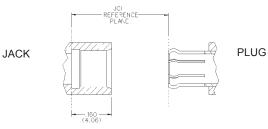
Insulators: PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457 Expansion Caps: Brass per QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Crimp Sleeves: Copper per WW-T-799, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Mounting Hardware: Brass (nuts) per QQ-B-626 or phosphor bronze (lockwashers) QQ-B-750, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

MATING ENGAGEMENT FOR MCX SERIES COMPATIBLE WITH CECC 22220





NOTES

- ID of contact to meet VSWR mating characteristics and connector durability when mated with a dia. .019-.021 (0.48-0.53) male contact.
- Must meet the force to engage and disengage when mated with mating part.

Mouser Electronics

Authorized Distributor

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Cinch Connectivity Solutions: 133-3701-301