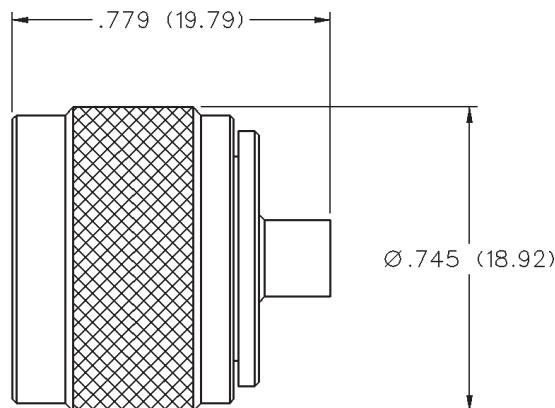


75 Ohm Type N Plug to 75 Ohm MCX Jack



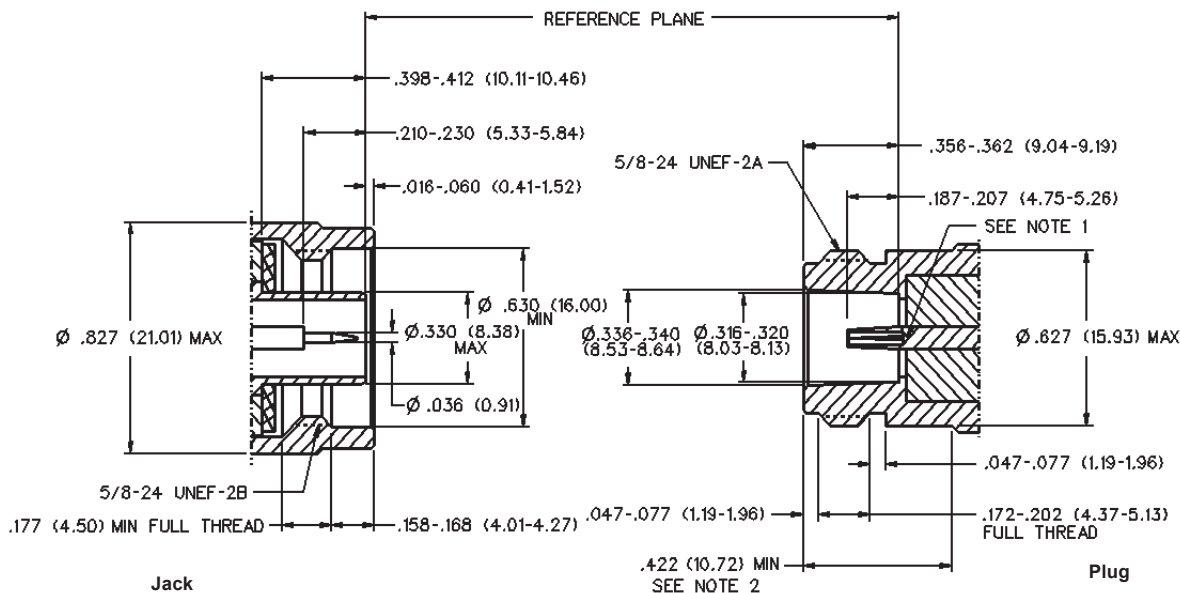
INCHES (MILLIMETERS)
CUSTOMER DRAWINGS AVAILABLE UPON REQUEST



STAINLESS STEEL PASSIVATED

134-1068-011

MATING ENGAGEMENT FOR 75 OHM "N" SERIES BASED ON MIL-STD-348A "N" SERIES



Specifications



INCHES (MILLIMETERS)
CUSTOMER DRAWINGS AVAILABLE UPON REQUEST

Impedance: 75 Ohms
Frequency Range: 0-6 GHz
VSWR: (f = GHz)

Frequency Range: 0.5 to 5 GHz	Straight Cabled Connectors	Right Angle Cabled Connectors
VSWR: (f = GHz)		
RG-179 cable	1.13 + .04f	1.07 + .04f
In-series adapters	1.07 + .03f	
Between series adapters, loads ...	1.05 + .01f	
Matching pad	1.05 + .05f	
Uncabled receptacles		N/A

Connectors for Cable Type	Sea Level	70K Feet
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<u>Connector for Cable Type</u>	<u>Cable Length</u>	<u>Per Foot</u>
RG-179	335	85
Uncabled receptacles, adapters	335	85
Loads, matching pad	N/A	

Connectors for RG-179	1000
Uncabled receptacles, adapters	1000
Loads, matching pad	N/A

Connectors for RG-179	250
Uncabled receptacles, adapters	250
Loads, matching pad	N/A

Straight cable connectors	0.1 dB
Right angle cable connectors	0.2 dB
Uncabled receptacles, adapters, matching pad	N/A

Contact Resistance: (milliohms maximum)

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

Cable connectors	-55 dB typical
Uncabled receptacles, adapters, loads, matching pads	N/A

Connectors for RG-179	700
Uncabled receptacles, adapters	600
Loads, matching pad	N/A

Cable Retention:	Axial Force* (pounds)	Torque (in-oz)
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Connectors for RG-179	20	N/A
Connectors for RG179 DS	25	N/A

Moisture Resistance: MIL-STD-202, Method 106

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

Technical drawing showing the dimensions and tolerances for the JACK and PLUG components, referenced to a REFERENCE PLANE.

JACK Dimensions:

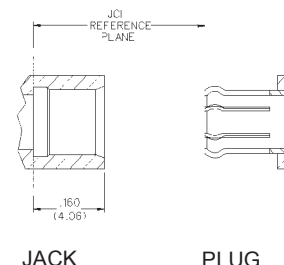
- Overall Length: $.110 \text{ (2.80) MAX}$
- Distance from Reference Plane to Jack Tip: $.0315 \pm .0020 \text{ (0.80} \pm 0.05\text{)}$
- Jack Tip Angle: 45°
- Jack Body Angle: 20°
- Jack Body Diameter: $\varnothing .136 \pm .001 \text{ (3.45} \pm 0.03\text{)}$
- Jack Body Length: $.162 \text{ (4.11) MAX}$

PLUG Dimensions:

- Overall Length: $.110 \text{ (2.79) MIN}$
- Distance from Reference Plane to Plug Tip: $.183 \text{ (4.14) MIN}$
- Plug Tip Diameter: $\varnothing .150 \text{ (3.81) MIN}$
- Plug Body Diameter: $\varnothing .135 \text{ (3.43) MAX}$
- Plug Body Length: $.006 \text{ (0.15) MIN}$
- Plug Body Taper: $.047 \text{ (1.19) MAX}$
- Plug Body Angle: 20°
- Plug Body Taper Angle: 45°
- Plug Body Taper Diameter: $\varnothing .019 \text{ (0.48) - } \varnothing .021 \text{ (0.53)}$
- Plug Body Taper Length: $.010 \text{ (0.25) MAX FLAT POINT}$
- Plug Body Taper Angle: 20°
- Plug Body Taper Diameter: $\varnothing .145 \pm .003 \text{ (3.68} \pm 0.08\text{)}$

Notes:

- SEE NOTE 1 (Pointing to Jack Tip)
- SEE NOTE 2 (Pointing to Plug Tip)



1. ID of contact to meet VSWR mating characteristics and connector durability when mated with a dia. .019-.021 (0.48-0.53) male contact.
2. Must meet the force to engage and disengage when mated with mating part.
3. Interface shall intermate with MCX 50 Ohm interface per CECC 22220.

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