

INTERFACE DESIGN STANDARD		<i>The PHOENIX Company of Chicago, Inc.</i> 22 GREAT HILL RD., NAUGATUCK, CT 06770 WWW.PHOENIXOFCHICAGO.COM PHONE: (800) 323-9562	REV.	DESCRIPTION	DATE	APPR.
IDS-13J			E	PER ECN 13033	07/23/18	JEM
SHEET 1 OF 1	DATE: 11/14/07		D	PER ECN 13001	06/21/18	JEM
DRAWN: EK	APPROVED: JEM		C	PER ECN. 1284	04/04/18	JEM

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13J Series, MCX, Per CECC 22 220, Non-Magnetic

MATERIALS

BODIES

Plug: Non-Magnetic Brass
 Receptacle: Non-Magnetic Brass

CONTACTS

Male Contact: Non-Magnetic Brass Or *
 Female Contacts: Beryllium Copper Per ASTM-B-196

INSULATORS

Teflon (PTFE) Per ASTM-D-1710

Residual Magnetism < 1.0000 mu

PLATING

Gold Per MIL-DTL-45204
 Copper Per MIL-C-14550

* Beryllium Copper Per ASTM-B-196

FINISH (Add Letter To End Of Part Number)

MATING CHARACTERISTICS

OPTIONS

Other Metal Parts: Gold Plated To Meet The Environmental Requirements

Bodies : .000020 Min. Gold Over Copper
 Contacts : .000030 Min. Gold Over Copper

Bodies: Conforms To CECC 22 220 Standards

Contacts: Conforms To BS EN 122340 Standards

Engagement: 89.6 oz. (5.6lbs.) Max

Disengagement: 28.8 oz. Min. / 72 oz. Max. (1.8 lbs Min. / 4.5 lbs. Max.)

ELECTRICAL

Frequency Range: DC To 6 GHz
 Voltage Rating Straight: 335 Volts RMS
 Voltage Rating Angled: N/A
 Insulation Resistance: 1000 Megohms Min
 Insertion Loss: $0.1\sqrt{\text{dB}}$ Max.fl GHz
 Current Rating: N/A
 Impedance: 50 Ohms

Contact Resistance: Center Contact: 5.0 Milliohms
 Contact Resistance: Outer Contact: 2.5 Milliohms
 VSWR:
 1.22 Max. @ 1 GHz 1.35 Max. @ 6 GHz
 Corona Level: 70,000 ft. - 185 Volts (RG-178), 250 Volts (RG-316)
 DWV: 1000 Volts RMS
 RF High Potential: 600 Volts RMS Min.@ 5 MHz

ENVIRONMENTAL

Operating Temperature: -65°C TO +155°C

Durability: 500 CYCLES

Insulation Resistance: N/A

Moisture Resistance: MIL-STD-202, Method 106

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

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

Shock: MIL-STD-202, Method 213, Test Condition A

Temperature Cycling: CECC 22 220 Paragraph 4-6-5

Thermal Shock: MIL-STD-202, Method 107, Test Condition C

High Temperature Test: MIL-STD-202, Method 108A, Condition D

Salt Spray: N/A