

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-10J			E	PER ECN 13033	07/23/18	JEM
SHEET 2 OF 2	DATE: 07/01/2022		D	PER ECN 13001	06/21/18	JEM
DRAWN: AL	APPROVED: JEM		C	PER ECN. 1284	04/04/18	JEM

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10J Series, SMC, Non-Magnetic Right Angle Connector

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 * Beryllium Copper Per ASTM-B-196
 Copper Per MIL-C-14550

FINISH (Add Letter To End Of Part Number)

MATING CHARACTERISTICS

OPTIONS

Contacts: .000030 Min. Gold Over Copper
 Bodies: .000020 Min. Gold Over Copper
 Other Metal Parts: Gold Plated To Meet The Environmental Requirements

Center Contacts: 40 oz. (2.5 lbs.) Max. Insertion. 1 oz.(0.063 lbs.) Min. Withdrawal Per MIL-C-39012
 Engagement / Disengagement: 16 in-oz. (1 lbs.) Max Torque
 Mating Torque: 35 - 50 in-oz. (2.188 - 3.125 in-lbs)
 Coupling Nut Proof Torque: 100 in-oz. (6.25 in-lbs.) 560 oz.
 Coupling Nut Retention Force: 560 oz. (35 lbs.) Min.

ELECTRICAL

Frequency Range: DC To 10 GHz	Contact Resistance: Center Contact: 12.0 Milliohms
Voltage Rating Straight: 335 Volts RMS	VSWR: RG-178 OR Equivalent $1.45 + .04 * f\{GHz\}$. RG-316 OR Equivalent $1.35 + .04 * f\{GHz\}$
Voltage Rating Angled: N/A	RF : High Potential:
Insulation Resistance: 1000 Megohms Min.	Corona Level - 70,000 ft. - 185 Volts (RG-178), 250 Volts (RG-316)
Insertion Loss: 0.6 dB Max. 1.5 GHz.	DWV: RG-178 Or Equivalent 500 Volts RMS. RG-316 Or Equivalent 700 Volts RMS.
Current Rating:	RF Leakage: -55 dB MIN. @ 2-3 GHz.
Impedance: 50 Ohms	

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: N/A
Thermal Shock: MIL-STD-202, Method 107, Test Condition C	High Temperature Test: N/A
	Salt Spray: N/A