

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-156			C	PER ECN 13033	07/24/18	JEM
SHEET 1 OF 1	DATE: 08/01/13		B	PER ECN 12816	03/27/18	JEM
DRAWN: JEM	APPROVED: JEM		A	PER ECN 11767	09/16/13	JEM

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Description: 156 Series, PkZ® Size 16

MATERIALS

BODIES

Plug: Brass Per ASTM-B-16
 Receptacle: Brass Per ASTM-B-16

CONTACTS

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

INSULATORS

Virgin Teflon (PTFE) Per ASTM-D-1710

PLATING

Gold Per MIL-DTL-45204 * Brass Per ASTM-B-16
 Copper Per MIL-C-14550
 Nickel Per QQ-N-290

FINISH (Add Letter To End Of Part Number)

MATING CHARACTERISTICS

OPTIONS

"A" - .000050 Min. Gold Over Nickel
 "B" - .000030 Min. Gold Over Nickel

Other Metal Parts: Plated To Meet The Environmental Requirements

Bodies: 24 oz. (1.5 lbs.) Max. Insertion
 2 oz. (0.125 lbs.) Min. Withdrawal
 Contacts: 14 oz. (0.875 lbs.) Max. Insertion
 .5 oz. (0.032 lbs.) Min. Withdrawal
 Axial Mating Tol.: .050" (1.27mm)
 Housing Retention: 160 oz. (10 lbs.) Min.

ELECTRICAL

Frequency Range: DC To 40 GHz	Contact Resistance: Center Contact 6 Milliohms
Voltage Rating Straight: 700 VRMS	Contact Resistance: Outer Contact 4 Milliohms
Voltage Rating Angled: 500 VRMS	VSWR: Configuration Dependent
Insulation Resistance: 2000 Megohms Min.	
Insertion Loss: $.07\sqrt{f(\text{GHz})}$ dB	
Current Rating: 1.25 Amps	
Impedance: 50 Ohms	R.F. Leakage: -90 dB MIN. @ 2-3 GHz

ENVIRONMENTAL

Operating Temperature: -65°C to +165°C	Durability: 500 Cycles
Insulation Resistance: 2000 Megohms Post Humidity	Moisture Resistance: MIL-STD-202, Method 106
Vibration: MIL-STD-202, Method 204, Test Condition D	Corrosion: N/A
Shock: MIL-STD-202, Method 213, Test Condition I	Temperature Cycling: N/A
Thermal Shock: MIL-STD-202, Method 107, Test Condition B, Except High Temperature Shall Be +85°C	High Temperature Test: N/A
	Salt Spray: MIL-STD-1344, Method 1001, Condition B