

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-56A			I	PER ECN 13787	06/17/20	JEM
SHEET 1 OF 1	DATE: 09/16/97		H	PER ECN 13264	03/15/19	JEM
DRAWN: JEM	APPROVED: HN		G	PER ECN 13033	07/24/18	JEM
			F	PER ECN 12819	03/28/18	JEM

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Description: 56 Series, PkZ ®, Size 12

MATERIALS

BODIES

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

Clip Ring

Beryllium Copper Per ASTM-B-196

CONTACTS

Male Contact: Beryllium Copper Per ASTM-B-196 Or Brass Per ASTM-B-16
 Female Contacts: Beryllium Copper Per ASTM-B-196

INSULATORS

Virgin Teflon (PTFE) Per ASTM-D-1710 Or #1 Varyflex Type HV,
 Two-Part Epoxy

PLATING

Gold Per MIL-DTL-45204
 Copper Per MIL-C-14550
 Nickel Per QQ-N-290
 White Bronze (Tri-Metal): Copper, Tin & Zinc

FINISH (Add Letter To End Of Part Number)

MATING CHARACTERISTICS

OPTIONS

"A" = .000050 Min. Gold Over Nickel
 "B" = .000030 Min. Gold Over Nickel
 "E" = Contacts : .000030 Min. Gold Over Nickel
 - Bodies : .000040 Min. White Bronze Over Copper
 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 Tolerance: .070"
 Housing Retention: 192 Oz. (12 Lbs.) Min.

ELECTRICAL

Frequency Range: DC To 42 GHz	Contact Resistance: Center Contact 6 Milliohms
Voltage Rating Straight: 800 VRMS	Contact Resistance: Outer Contact 4 Milliohms
Voltage Rating Angled: 600 VRMS	VSWR: Configuration Dependent
Insulation Resistance: 2000 Megohms Min.	
Insertion Loss: $.06\sqrt{f(QHz)}$ dB	
Current Rating: N/A	
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