

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-78			H	PER ECN 13488	09/10/19	JEM
SHEET 1 OF 1	DATE: 06/16/98		G	PER ECN 13033	07/24/18	JEM
DRAWN: JEM	APPROVED: HN		F	PER ECN 12819	03/28/18	JEM
			E	PER ECN 11479	10/19/12	JEM

WARNING - THIS DOCUMENT CONTAINS TECHNICAL DATA WHOSE EXPORT IS RESTRICTED BY THE ARMS EXPORT CONTROL ACT (TITLE 22, U.S.C., SEC 2751, ET. SEQ.) OR THE EXPORT ADMINISTRATION ACT OF 1979, AS AMENDED, TITLE 50, U.S.C., APP 2401 ET SEQ. VIOLATIONS OF THESE EXPORT LAWS ARE SUBJECT TO SEVERE CRIMINAL PENALTIES. DISSEMINATE IN ACCORDANCE WITH PROVISIONS OF DOD DIRECTIVE 5230.25.

Description: 78 Series, Size 8 PkZ®

**MATERIALS**

BODIES

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

CONTACTS

Male Contact: Beryllium Copper Per ASTM-B-197  
 Female Contacts: Beryllium Copper Per ASTM-B-197

INSULATORS

Teflon (PTFE) Per ASTM-D-1457

PLATING

Gold Per MIL-DTL-45204  
 Copper Per MIL-C-14550  
 Nickel Per QQ-N-290

CLIP RING

Beryllium Copper Per ASTM-B-196

O-RING (Opt.)

Grounding Ring Beryllium Copper Per ASTM-B-196

**FINISH (Add Letter To End Of Part Number)**

OPTIONS

"A" = .000050" Min. Gold Over Nickel  
 "B" = .000030" Min. Gold Over Nickel  
 "C" = .000050" Min. Gold Over Copper  
 "D" = .000030" Min. Gold Over Copper

**MATING CHARACTERISTICS**

Bodies: 48 oz. (3lbs Max.) Insertion.  
 2oz. (0.125lbs.) Min. Withdrawal  
 Contacts: 32 oz. (2lbs.) Max. Insertion.  
 .5oz. (0.032 Lbs.) Min. Withdrawal  
 Axial Mating Tol.: .090"  
 Housing Retention: 192 oz. (12 lbs.) Min.

**ELECTRICAL**

Frequency Range: DC To 32 GHz	Contact Resistance: Center Contact 5 Milliohms
Voltage Rating Straight: 1000 VRMS	Contact Resistance: Outer Contact 3 Milliohms
Voltage Rating Angled: 800 VRMS	VSWR:
Insulation Resistance: 2000 Megohms Min.	RG-402 1.08 + .009*f(GHz.)
Insertion Loss: .06√f(GHz) dB	RG-174, 316 1.15 + .020*f(GHz.)
Current Rating: 5 AMPS	RG-142, 223, 303, 400 1.15 + .010*f(GHz.)
Impedance: 50 Ohms	

**ENVIRONMENTAL**

Operating Temperature: -55°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