

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-76			E	PER ECN 13787	06/18/20	JEM
SHEET 1 OF 1	DATE: 01/07/10		D	PER ECN 13717	03/06/20	JEM
DRAWN: JEM	APPROVED: RMB		C	PER ECN 13033	07/24/18	JEM
			B	PER ECN 12834	04/10/18	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: 76 Series, Size 8 PkZ®, 75 Ohms

MATERIALS

BODIES

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

Weather Seal Gasket (Opt.)

Silicone Rubber Per ZZ-R-765

CONTACTS

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

O-RING (Opt.)

EMI Gasket Beryllium Copper Per ASTM-B-196

INSULATORS

Virgin Teflon (PTFE) Per ASTM-D-1710 And ASTM-D-1457

PLATING

Gold Per MIL-DTL-45204
 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
 "C" = .000050" Min. Gold Over Copper
 "D" = .000030" Min. Gold Over Copper

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 3 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 (75 Ohms) 1.08 + .009*f(GHz.)
Insertion Loss: .06√f(GHz) dB	Mini RG-59 1.15 + .020*f(GHz.)
Current Rating: N/A	RG-59 1.15 + .010*f(GHz.)
Impedance: 75 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