INTERFACE DESIGN STANDARD	
IDS-156	
SHEET 1 OF 1	DATE: 08/01/13
DRAWN: JEM	APPROVED: JEM

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REV.	DESCRIPTION	DATE	APPR.
A	PER ECN 11767	09/16/13	JEM
B	PER ECN 12816	03/27/18	JEM
C	PER ECN 13033	07/24/18	JEM
D	PER ECN 13787	06/18/20	JEM
E	PER ECN 14215	11/26/24	DW

Description: 156 Series, PkZ ®, Size 16

MATERIALS

BODIES

Plug: Brass Per ASTM B16

Receptacle: Brass Per ASTM B16

CONTACTS

Male Contact: Beryllium Copper Per ASTM B196 Or Brass Per ASTM B16

Female Contact: Beryllium Copper Per ASTM B196

INSULATORS

Virgin Teflon (PTFE) Per ASTM D1710

PLATING

Gold Per MIL-DTL-45204 (Electro Deposited)

Copper Per SAE AMS 2418 (Electro Deposited)

Nickel Per QQ-N-290

FINISH (Ending Letter of Part Number)

A: .000050" Min. Gold Over Nickel

B: .000030" Min. Gold Over Nickel

Other Metal Parts: Plated To Meet The Environmental Requirements

MATING CHARACTERISTICS

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. (0.031 lbs.) Min. Withdrawal
Axial Mating:	.050"
Housing Retention:	160 oz. (10 lbs.) Min.

ELECTRICAL

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

ENVIRONMENTAL

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

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