## INTERFACE DESIGN STANDARD IDS-33J

SHEET 1 OF 1 DATE: 11/14/07 DRAWN: YT APPROVED: JEM

## The **PHOENIX** Company of Chicago, Inc.

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REV.	DESCRIPTION	DATE	APPR.
В	PER ECN 12824	04/03/18	JEM
С	PER ECN 13001	6/21/18	JEM
D	PER ECN 13033	7/23/18	JEM
Е	PER ECN 14215	11/26/24	DW

Description: 33 Series, MMCX, Per BS EN 122340, Non-Magnetic

**MATERIALS** 

BODIES

Plug: Non-Magnetic Brass Receptacle: Non-Magnetic Brass

**CONTACTS** 

Male Contact: Non-Magnetic Brass Or

Beryllium Copper Per ASTM B196

Female Contact: Beryllium Copper Per ASTM B196

Residual Magnetism < 1.0000 mu

**INSULATORS** 

Virgin Teflon (PTFE) Per ASTM D1710

PLATING

Gold Per MIL-DTL-45204 (Electro Deposited)
Copper Per SAE AMS 2418 (Electro Deposited)

**CLIP RING** 

Beryllium Copper Per ASTM B196

FINISH (Ending Letter of Part Number)

.000020" Min. Gold Over Copper

.000030" Min. Gold Over Copper

Other Metal Parts: Gold Plated To Meet The Environmental

Requirements

MATING CHARACTERISTICS

Engagement: 56 oz. (3.5 lbs.) Max.

Disengagement: 20.8 oz. (1.3 lbs.) To 54.4 oz. (3.4 lbs.)

Conforms to BS EN 122340 STD

**ELECTRICAL** 

**Bodies:** 

Contacts:

Frequency Range: DC To 6 GHz

170 VRMS

Contact Resistance:

Center Contact 5.0 Milliohms

Outer Contact 3.0 Milliohms

Insulation Resistance: 5000 M

5000 Megohms Min.

VSWR:

1.20 (Typical) For Straight Connectors

1.30 (Typical) For Angled Connectors

Insertion Loss:

0.2 dB Max./1 GHz

DWV:

500 Volts

Impedance:

50 Ohms

RF Leakage:

Contact Resistance:

55 dB Min. @ 1 GHz

**ENVIRONMENTAL** 

Voltage Rating Straight:

Operating Temperature:

-65°C To +155°C

Vibration:

MIL-STD-202, Method 204, Test Condition D

Shock:

MIL-STD-202, Method 213, Test Condition A

Thermal Shock:

MIL-STD-202, Method 107, Test Condition C

Durability:

500 Cycles

Corrosion:

MIL-STD-202, Method 101, Test Condition B