| INTERFACE DESIGN STANDARD | |
|---|---|
| IDS-16 | |
| SHEET 1 OF 1 | DATE: 2/28/94 |
| DRAWN: JEM | APPROVED: HN |

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| REV. | DESCRIPTION | DATE | APPR. |
|---|---|---|---|
| C | PER ECN 8579 | 06/30/06 | HN |
| D | PER ECN 12960 | 04/06/18 | JEM |
| E | PER ECN 13033 | 07/23/18 | JEM |
| F | PER ECN 13730 | 03/12/20 | JEM |
| G | PER ECN 14215 | 11/26/24 | DW |

Description: 16 Series, 75 Ohms PDM

## MATERIALS

### BODIES
Plug: Brass Per ASTM B16
Receptacle: Beryllium Copper Per ASTM B196

### CONTACTS
Male Contact: Brass Per ASTM B16
Female Contact: Beryllium Copper Per ASTM B196

### INSULATORS
Virgin Teflon Per ASTM D1710

### PLATING
Gold Per MIL-DTL-45204 (Electro Deposited)
Copper Per SAE AMS 2418 (Electro Deposited)
Nickel Per QQ-N-290

### CLIP RING
Beryllium Copper Per ASTM B194

## FINISH (Ending Letter of Part Number)

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. (3 lbs.) Max. Insertion<br>2 oz. (0.125 lbs.) Min. Withdrawal |
| Contacts: | 16 oz. (1 lbs.) Max. Insertion<br>.5 oz. (0.031 lbs.) Min. Withdrawal |
| Housing Retention: | 192 oz. (12 lbs.) Min. |

## ELECTRICAL

| | |
|---|---|
| Frequency Range: | DC To 2.0 GHz |
| Voltage Rating Straight: | 1000 VRMS |
| Voltage Rating Angled: | 800 VRMS |
| Insulation Resistance: | 5000 Megohms Min. |
| Insertion Loss: | .5 dB Max. |
| Impedance: | 75 Ohms |
| Contact Resistance: | Center Contact 5 Milliohms |
| Contact Resistance: | Outer Contact 3 Milliohms |
| VSWR: | Configuration Dependent |
| DWV: | Straight 1500 Volts Avg. Flashover<br>Angled 90° 800 Volts Avg. Flashover |

## ENVIRONMENTAL

| | |
|---|---|
| Operating Temperature: | -55°C To +165°C |
| Vibration: | MIL-STD-1344, Method 2005, Test Condition 4 |
| Shock: | MIL-STD-1344, Method 2004, Test Condition A |
| Durability: | 500 Cycles |
| Salt Spray: | MIL-STD-1344, Method 1001, Condition B |

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