

|                           |                |  |     |              |          |      |
|---------------------------|----------------|--|-----|--------------|----------|------|
| INTERFACE DESIGN STANDARD |                | <br>22 GREAT HILL ROAD, NAUGATUCK, CT. 06770<br>PHONE: (203) 729-9090 FAX: (203) 723-1794 | REV | DESCRIPTION  | DATE     | APPR |
| IDS-33J                   |                |  | A   | PER ECN 9251 | 01/23/08 | JEM  |
| PAGE 1 OF 2               | DATE: 11/14/07 |  |     |              |          |      |
| DRAWN: YT                 | APPROVED: JEM  |  |     |              |          |      |

DESCRIPTION: 33 SERIES, MMCX, PER BS EN 122340 NON-MAGNETIC.

## MECHANICAL

### MATERIALS

BODIES, MALE CONTACTS, FERRULES AND CAPS - NON-MAGNETIC BRASS.  
INSULATORS - TEFLON (PTFE) PER ASTM-D-1710.  
FEMALE CONTACTS AND CLIP RING - BERYLLIUM COPPER PER ASTM-B-196.  
GASKETS - SILICONE RUBBER PER ZZ-R-765.

### FINISHES (ADD LETTER TO END OF PART NUMBER)

GOLD PER MIL-G-45204.  
COPPER PER MIL-C-14550.  
CONTACTS: - .000030 MIN. GOLD OVER COPPER.  
BODIES: - .000020 MIN. GOLD OVER COPPER.  
OTHER METAL PARTS:  
GOLD PLATED TO MEET THE ENVIRONMENTAL REQUIREMENTS.  
RESIDUAL MAGNETISM 20 GAMMA MAX.

## MATING CHARACTERISTICS

ENGAGEMENT: 3.5 LBS. MAX.  
DISENGAGEMENT: 1.3 TO 3.4 LBS.  
DURABILITY: 500 CYCLES.  
CONFORMS TO BS EN 122340 STANDARDS.

## ELECTRICALS

IMPEDANCE: 50 OHMS.  
FREQUENCY RANGE: DC TO 6 GHz.  
VOLTAGE RATING: 170 VOLTS RMS.  
INSULATION RESISTANCE: 5000 MEGOHMS MIN.  
TEMPERATURE RATING: -65°C TO +165°C  
DMV: 500 VOLTS RMS.  
RF LEAKAGE: 55 dB MIN. @ 1 GHz.  
CONTACT RESISTANCE: CENTER CONTACT: 5.0 MILLIOHMS.  
OUTER CONTACT: 3.0 MILLIOHMS.  
VSWR: 1.20 TYP. FOR STRAIGHT CONNECTORS.  
1.30 TYP. FOR RIGHT ANGLE CONNECTORS.  
INSERTION LOSS: 0.2 dB MAX./1 GHz.

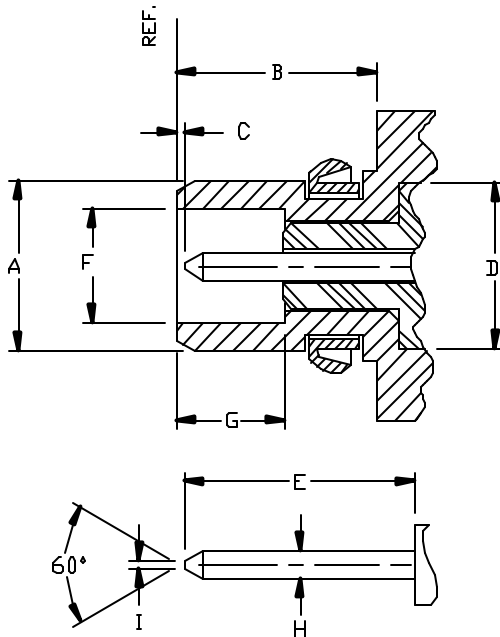
## ENVIRONMENTAL

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.  
CORROSION: MIL-STD-202, METHOD 101, TEST CONDITION B.

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PLUG

|   | MIN.  | MAX.  |
|---|-------|-------|
| A | —     | ∅.094 |
| B | .106  | —     |
| C | .000  | .010  |
| D | ∅.091 | ∅.093 |
| E | —     | .124  |
| F | ∅.062 | ∅.064 |
| G | .057  | —     |
| H | ∅.015 | ∅.017 |
| I | —     | ∅.008 |



JACK

|   | MIN.  | MAX.  |
|---|-------|-------|
| A | ∅.095 | —     |
| B | .102  | —     |
| C | .035  | .047  |
| D | ∅.091 | ∅.093 |
| E | .055  | —     |
| F | ∅.118 | ∅.120 |
| G | ∅.113 | ∅.114 |
| H | .062  | .064  |
| I | .091  | .092  |
| K | —     | .009  |

