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|---------------------------|----------------|--|------|---------------|-----------|-------|
| 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-168L | | | A | PER ECN 14374 | 4/16/2024 | SPS |
| SHEET 1 OF 1 | DATE: 4/3/2024 | | | | | |
| DRAWN: RA | APPROVED: SPS | | | | | |

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Description: 168L Series, PkZ ®, Size 12

MATERIALS

BODIES

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

CONTACTS

Male Contact: Brass Per ASTM-B-16 Or *
 Female Contacts: Beryllium Copper Per ASTM-B-196

INSULATORS

Teflon (PTFE) Per ASTM-D-1457

PLATING

Gold Per MIL-DTL-45204 * Beryllium Copper Per ASTM-B-196
 Copper Per MIL-C-14450
 Nickel Per QQ-N-290

FINISH (Add Letter To End Of Part Number)

OPTIONS

"A" = .000050 Min. Gold Over Nickel
 "C" = .000050 Min. Copper Over Nickel
 Other Metal Parts: Plated To Meet The Environmental Requirements

MATING CHARACTERISTICS

Bodies: 24 oz (1.5 lbs) Max. Insertion
 2 oz (.125 lbs) Min. Withdrawal
 Contacts: 14 oz (.875 lbs) Max. Insertion
 .5 oz (.031 lbs) Min. Withdrawal
 Axial Mating Tolerance: .110" [2.79]
 Housing Retention: 192 oz (12 lbs) Min.

ELECTRICAL

| | |
|--|--|
| Frequency Range: DC To 18 GHz | Contact Resistance: Center Contact 6 Milliohms |
| Voltage Rating Straight: 800 VRMS | Contact Resistance: Outer Contact 4 Milliohms |
| Voltage Rating Angled: 600 VRMS | VSWR: Configuration Dependant |
| Insulation Resistance: 2000 Megohms Min. | |
| Insertion Loss: $.06\sqrt{f(\text{GHz})}$ dB | |
| Current Rating: N/A | |
| Impedance: 50 Ohms | R.F. Leakage: -90 dB Min. @ 2-3 GHz |

ENVIRONMENTAL

| | |
|---|--|
| Operating Temperature: -55° To +165° C | Durability: 500 Cycles |
| Insulation Resistance: 2000 Megohms Post Humidity | Moisture Resistance: N/A |
| 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 |