

INTERFACE DESIGN STANDARD		<i>The PHOENIX Company of Chicago™</i> 22 GREAT HILL RD., NAUGATUCK, CT 06770 WWW.PHOENIXOFCHICAGO.COM PHONE: (800) 323-9562 FAX: (630) 625-0819	REV	DESCRIPTION	DATE	APPR
IDS-19			A	REL. PER ECN 14382	04/04/2024	SPS
PAGE 1 OF 1	DATE: 04/04/2024					
DRAWN: SPS	APPROVED: SJG					

DESCRIPTION: 19 SERIES, PSMA CONNECTOR, 75 OHMS, 18 GHz FREQUENCY

**MATERIALS**

BODIES- BRASS, PER ASTM-B-16. FERRULES, SOLDER NUTS- BRASS, PER ASTM-B-16. COUPLING NUTS- BRASS, PER ASTM-B-16.	FOR "J" - NON MAGNETIC PARTS ONLY: BODIES- NON-MAGNETIC BRASS. FERRULES, SOLDER NUTS- NON-MAGNETIC BRASS. COUPLING NUTS- NON-MAGNETIC BRASS.
INSULATORS - TEFLON (PTFE) PER ASTM-D-1457. CENTER CONTACTS - BERYLLIUM COPPER PER ASTM-B-196. GASKETS - SILICONE RUBBER PER ZZ-R-765.	

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

"G": BODY - .000020 MIN. GOLD OVER NICKEL; CENTER CONTACT - .000050 MIN. GOLD OVER NICKEL COUPLING NUT - .000010 MIN. GOLD OVER NICKEL "N": BODY - .000020 MIN. GOLD OVER NICKEL; CENTER CONTACT - .000050 MIN. GOLD OVER NICKEL COUPLING NUT - .000200 MIN. NICKEL OTHER METAL PARTS - .000010 / .000030 GOLD PLATED TO MEET THE ENVIRONMENTAL REQUIREMENTS OF MIL-PRF-39012.	FOR "J" - NON MAGNETIC PARTS ONLY: BODY - .000020 MIN. GOLD OVER COPPER CENTER CONTACT - .000050 MIN. GOLD OVER COPPER COUPLING NUT - .000010 MIN. GOLD OVER COPPER RESIDUAL MAGNETISM < 1.0000mu
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**MATING CHARACTERISTICS**

CENTER CONTACT PIN AND SOCKET PER MIL-PRF-39012, 1 OZ. MIN (2 LBS.) MAX FORCE TO ENGAGE /DISENGAGE : 32 OZ. (2 IN.-LBS.) MAX. TORQUE. COUPLING NUT RETENTION : 960 OZ. (60 IN.-LBS.) MIN. COUPLING PROOF TORQUE: 240 OZ. (15 IN.- LBS.) MIN. DURABILITY: 500 CYCLES PER MIL-PRF-39012. RECOMMENDED TORQUE : 112-160 IN.-OZ. (7-10 IN.-LBS.) * INTER-MATING CHARACTERISTIC: ALSO MATES WITH STANDARD 50 OHM SMA, 3.5mm AND 2.92mm CONNECTORS.
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**ELECTRICALS**

IMPEDANCE: 75 OHMS. FREQUENCY RANGE: DC TO 18 GHz. INSULATION RESISTANCE: 5000 MEGOHMS. TEMPERATURE RATING: -55°C TO +165°C	DMV: 900VRMS. R.F. LEAKAGE: -90 dB MIN.
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**ENVIRONMENTAL**

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. CORROSION: MIL-STD-202, METHOD 101, TEST CONDITION B, 5% SALT SOLUTION. MOISTURE RESISTANCE: MIL-STD-202, METHOD 106, OMIT STEP 7B.
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\*NOTES:

- 1) DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED [METRIC].
- 2) DIMENSIONS ARE SHOWN FOR REFERENCE PURPOSES ONLY.