

Notes:

2620-1000-00G

- 1) Design and Interface per IDS 26 and IDS 20.
- 2) Size 8 PkZ® Receptacle to SMA Plug Adapter.
- 3) Performance to 2 GHz.
- 4) .000050" Min. Gold Over Nickel.

				<p>PALCO CONNECTOR</p> <p>22 GREAT HILL RD., NAUGATUCK, CT 06770</p> <p>UNLESS OTHERWISE SPECIFIED, PALCO WORKMANSHIP STANDARDS APPLY</p> <p>TOLERANCES ON: DECIMALS: XX ±.01 .XXX ±.005 ANGLES ±1/2° 32</p> <p>DIMENSIONS IN INCHES OR (METRIC) DO NOT SCALE PRINTS</p>	DRAWN EW	CHECKED PRP	ENGINEER EW	APPROVED PRP	FSCM 58167
E	PER ECN 10048	10/08/09	JEN			DESCRIPTION SMA PLUG TO PKZ RECEPTACLE ADAPTOR			
D	PER ECN	09/20/96	HN			DATE 12/13/91	DRAWING NO. 2620-1000-00 G		
REV.	DESCRIPTION	DATE	APPR.						

INTERFACE DESIGN STANDARD			REV	DESCRIPTION	DATE	APPR
IDS-26			D	PER ECN 6752	10/24/02	HN
PAGE 1 OF 1	DATE: 02/28/94		E	PER ECN 7265	01/27/04	HN
DRAWN: JEM	APPROVED: HN		F	PER ECN 9935	05/22/09	JEM
			G	PER ECN 10145	01/20/10	JEM

22 GREAT HILL ROAD, NAUGATUCK, CT. 06770
 PHONE: (203) 729-9090 FAX: (203) 723-1794

DESCRIPTION: 26 SERIES PkZ®, SIZE 8 MICROWAVE CONTACTS FOR STANDARD DENSITY MULTIPORT RF D-SUB CONNECTORS

MECHANICAL

MATERIALS

BODIES:

PLUG BODIES - BRASS PER ASTM B 16.
 RECEPTACLE BODIES - BRASS PER ASTM B 16.

PLATING:

GOLD PER MIL-G-45204.
 COPPER PER MIL-C-14550.
 NICKEL PER QQ-N-290.

INSULATORS - VIRGIN TEFLON (PTFE) PER ASTM D 1710 AND ASTM D 1457.
 RETAINING RING - BERYLLIUM COPPER PER ASTM B 196.
 MALE CONTACT - BERYLLIUM COPPER PER ASTM B 197.
 FEMALE CONTACTS - BERYLLIUM COPPER PER ASTM B 197.
 WEATHER SEAL GASKET (OPTIONAL) - SILICONE RUBBER PER ZZ-R-765.
 EMI GASKET - BERYLLIUM COPPER ASTM B 196.

FINISHES (ADD LETTER TO END 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

OUTER BODIES _____ 3 LBS MAX. INSERTION.
 2 OZ. MIN. WITHDRAWAL.
 CENTER CONTACTS _____ 32 OZ. MAX. INSERTION.
 .5 OZ. MIN. WITHDRAWAL.
 HOUSING RETENTION _____ 12 LBS. MIN.
 AXIAL MATING TOLERANCE _____ .090

ELECTRICALS

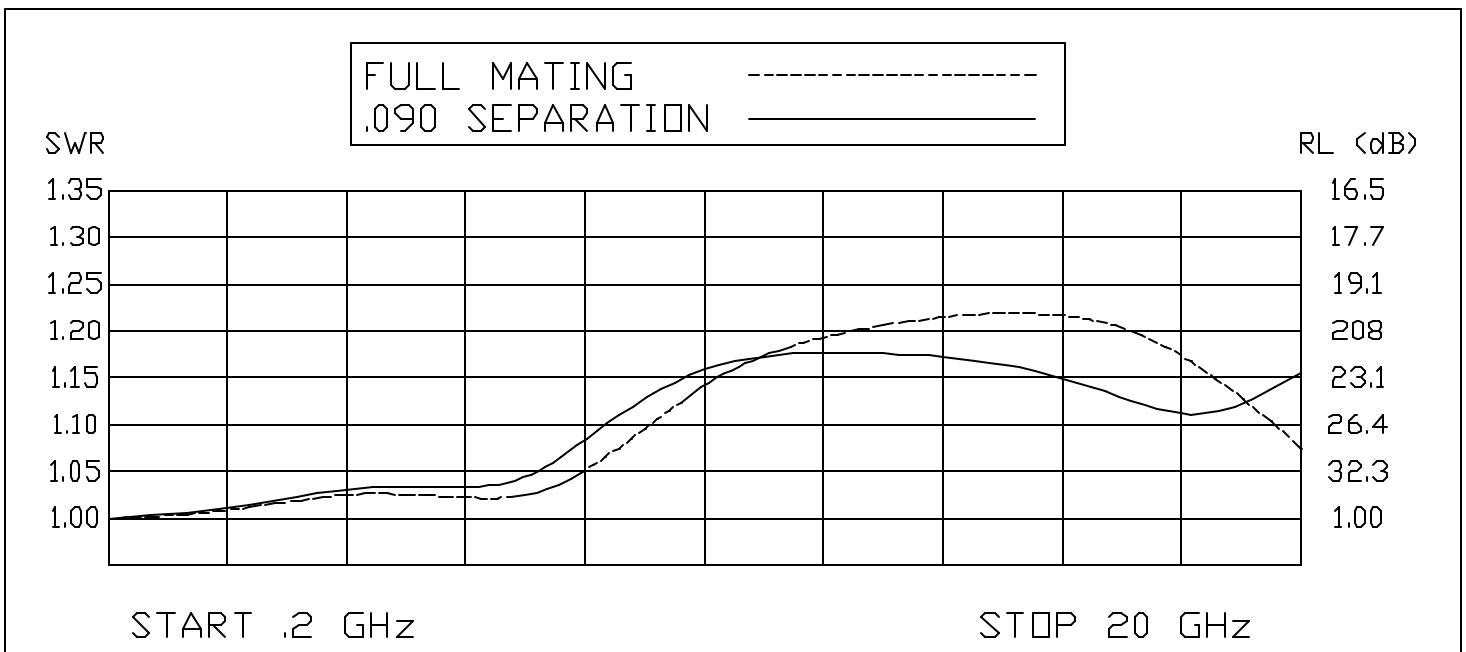
FREQUENCY RANGE: DC TO 32 GHz.
 VOLTAGE RATING STRAIGHT: 1000 VRMS.
 VOLTAGE RATING ANGLED: 800 VRMS.
 CURRENT RATING: 5 AMPS.
 INSULATION RESISTANCE: 2000 MEGOHMS MIN.
 INSERTION LOSS: $.06 \sqrt{f(\text{GHz})}$ dB

CONTACT RESISTANCE: CENTER CONTACT 5 MILLIOHMS
 CONTACT RESISTANCE: OUTER CONTACT 3 MILLIOHMS
 VSWR: 1.08 + .009(f) GHz., RG-402 CABLE.
 1.15 + .02 (f) GHz., RG-174 & RG-316 CABLES.
 1.15 + .01 (f) GHz., RG-142, 223, 303 & 400 CABLES.

ENVIRONMENTAL

OPERATING TEMPERATURE: -65°C to +165°C
 VIBRATION: MIL-STD-202, METHOD 204, TEST CONDITION D.
 SHOCK: MIL-STD-202, METHOD 213, TEST CONDITION I.
 SALT SPRAY: MIL-STD-1344, METHOD 1001, CONDITION B.
 DURABILITY: 500 CYCLES.

THERMAL SHOCK: MIL-STD-202, METHOD 107, TEST CONDITION B, EXCEPT HIGH TEMPERATURE SHALL BE +85°C.
 MOISTURE RESISTANCE: MIL-STD-202, METHOD 106. NO MEASUREMENT AT HIGH HUMIDITY. INSULATION RESISTANCE 2000 MEGOHMS AFTER HUMIDITY.



INTERFACE DESIGN STANDARD			REV	DESCRIPTION	DATE	APPR
IDS-20			C	PER ECN 7035	03/31/03	HN
PAGE 1 OF 1	DATE: 02/28/94		D	PER ECN 8609	08/02/06	JEM
DRAWN: JEM	APPROVED: HN		E	PER ECN 9052	09/05/07	HN
22 GREAT HILL ROAD, NAUGATUCK, CT. 06770 PHONE: (203) 729-9090 FAX: (203) 723-1794						

DESCRIPTION: SMA 20 SERIES

MECHANICAL

MATERIALS

BODIES, NUTS- CORROSION RESISTANT STEEL, PER ASTM-A-582 & ASTM-A-484.
 INSULATORS - TEFLON (PTFE) PER ASTM-D-1457.
 CONTACTS, MALE AND FEMALE- 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 .000050 NICKEL;
 CONTACT - .000050 GOLD OVER .000050 MIN. NICKEL
 "P": BODY - PASSIVATED
 CONTACT - .000050 GOLD OVER .000050 MIN. NICKEL
 OTHER METAL PARTS - .00002 GOLD PLATED
 TO MEET THE ENVIRONMENTAL REQUIREMENTS OF MIL-C-39012.

MATING CHARACTERISTICS

CENTER CONTACT PIN AND SOCKET PER MIL-C-39012 (1 OZ. MIN) (2 LBS. MAX)
 FORCE TO ENGAGE /DISENGAGE- 2 IN.-LBS. MAX. TORQUE.
 COUPLING NUT RETENTION - 60 LBS. MIN.
 COUPLING PROOF TORQUE 15 IN.-LBS. MIN.
 DURABILITY: 500 CYCLES PER MIL-C-39012.
 RECOMMENDED TORQUE - 7-10 IN.-LBS.

ELECTRICALS

IMPEDANCE: 50 OHMS.
 FREQUENCY RANGE: DC TO 18 GHz.
 INSULATION RESISTANCE: 5000 MEGOHMS.
 TEMPERATURE RATING: -65°C TO +165°C

	<u>RG 402 (141)</u> <u>SEMI-RIGID</u>	<u>RG 405 (085)</u> <u>SEMI-RIGID</u>
DWV -	1,500 VOLTS RMS.	1,000 VOLTS RMS.
RF HIGH POTENTIAL -	1,000 VOLTS RMS.	670 VOLTS RMS.
CONTACT RESISTANCE -		
CENTER CONTACT:	2.0 MILLIOHMS MAX.	2.0 MILLIOHMS MAX.
OUTER CONTACT:	2.0 MILLIOHMS MAX.	2.0 MILLIOHMS MAX.
OUTER CONTACT TO CABLE:	0.5 MILLIOHMS MAX.	0.5 MILLIOHMS MAX.
VSWR -		
DC - 18.0 GHz:	1.05 + .005F (GHz)	1.05 + .005F (GHz)
CORONA LEVEL -	375 VOLTS MIN.	335 VOLTS MIN.
R.F. LEAKAGE -	-90 dB MIN.	-90 dB MIN.
INSERTION LOSS -	.03 x \sqrt{F} (GHz)	.03 x \sqrt{F} (GHz)

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.