



NOTES:

1. HE LEAK TEST @ 1 ATM. 1X10⁻⁶ CC/SEC OR LESS. A GREEN PAINT DOT ON THE ATMOSPHERE SIDE INDICATES THE PART HAS PASSED THE TEST.
2. HYPOT 630 VDC 500 MEGOHMS MINIMUM 0.01 SECOND MINIMUM CONDUCTOR TO CONDUCTOR AND CONNECTOR SHELL WITH MATING CONNECTORS.
3. CONTINUITY TEST <.5 OHMS MATING CONNECTOR TO MATING CONNECTOR AND CONNECTOR SHELL TO CONNECTOR SHELL.
4. ALCOHOL OR FOMBLIN YVAC 3 MAY BE USED TO LUBRICATE O-RINGS FOR VACUUM HELIUM LEAK TESTING.
5. ALL TESTS ARE PERFORMED AT ROOM TEMPERATURE.
6. ALL PARTS MUST PASS ALL TESTS.
7. COSMETIC SURFACE VOIDS NOT ON O-RING SEALING SURFACES ARE ACCEPTABLE BASED ON THE SEAL'S DIAMETER:
 <= .5 [12.7] SEAL DIAMETER: Ø .035 [.89] MAX ALLOWED VOID SIZE
 > .5 [12.7] SEAL DIAMETER: Ø .060 [1.5] MAX ALLOWED VOID SIZE
8. REF-OPERATING TEMPERATURE RANGE -20 °C TO 85 °C.
9. DIMENSIONS ARE INCHES [millimeters].
10. PAVE-SEAL CAN BE A BI-DIRECTIONAL HERMETIC SEAL FOR VACUUM AND MOST PRESSURES. FOR PRESSURES ABOVE 150 PSI (10 BAR), CHECK WITH SALES ENGINEERING.
11. 4871R IS REVERSED WITH ITEMS 4 & 7 (PINS/JACKSOCKETS) ON THE ATMOSPHERE SIDE AND ITEMS 3 & 6 (SOCKETS/SCREWLOCKS) ON THE VACUUM SIDE.

8	2	YARDLEY#440A5-8	THREADED INSERT SS 4-40 X .12
7	2	3341-31	JACKSOCKET M2.5 MALE/#4-40 FEMALE SS
6	2	749087-1	SCREWLOCK #4-40/#2-56 FEMALE SS
5	1	-036 VITON	O-RING -036 VITON 75
4	1	2-5174339-5	PLUG D-SUB 68 PIN AMPLIMITE .050 SERIES
3	1	5749070-7	RCPT D-SUB 68 SOCKET AMPLIMITE .050 SERIES
2	A/R	PAVE-Seal 150	EPOXY BLACK
1	1	4182	PLATE TOP SS DSUB
ITEM	QTY	PART NUMBER	DESCRIPTION

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DESCRIPTION
SP58/16-E-150-68-26-DSUB-DSUB

PART NUMBER *SEE NOTE 11
4871

MATERIAL NOTED

REVISION LEVEL
A

PROJECTION

ALL DIMENSIONS AND TOLERANCES APPLY TO FINISHED PART IN INCHES.
 ALLOWABLE TOLERANCES UNLESS SPECIFIED OTHERWISE: NONE ±.05
 X.X DECIMAL ±0.1 X.XX DECIMAL ±0.02 X.XXX DECIMAL ±0.005
 ANGLES ±1 DEGREE SURFACE FINISH 128 microinch RMS