



NOTES:

1. HE LEAK TEST @ 1 ATM. 1X10⁻⁷ CC/SEC OR LESS. FOR 5272-1 ONLY, RECORD INDIVIDUAL LEAK RATE BY S/N ON SEPARATE CERTS. A GREEN PAINT DOT ON THE HEX SIDE INDICATES THE PART HAS PASSED THE TEST.
2. OPTICAL CONTINUITY CHECK, 12 MINIMUM GOOD FIBERS IN EACH BUNDLE OF 13 (1 SPARE PER BUNDLE), 48 TOTAL.
3. ALCOHOL OR KRYTOX LVP MAY BE USED TO LUBRICATE O-RINGS FOR VACUUM HELIUM LEAK TESTING.
4. ALL TESTS ARE PERFORMED AT ROOM TEMPERATURE.
5. ALL PARTS MUST PASS ALL TESTS.
6. FIBER POSITIONING IS APPROXIMATE & VARIABLE.
7. FIBERS ARE NOT REQUIRED TO BEND SHARPLY AT EPOXY SEAL SURFACE.
8. COSMETIC SURFACE VOIDS NOT ON O-RING SEALING SURFACES ARE ACCEPTABLE BASED ON THE SEAL'S DIAMETER:
 <= .5 [12.7] SEAL DIAMETER: ϕ .035 [.89] MAX ALLOWED VOID SIZE
 > .5 [12.7] SEAL DIAMETER: ϕ .060 [1.5] MAX ALLOWED VOID SIZE
9. REF-OPERATING TEMPERATURE RANGE -20°C TO 65°C.
10. DIMENSIONS ARE INCHES [millimeters].
11. 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.
12. 5272-1 ONLY IS TERMINATED, TO THE LENGTH SHOWN, ON THE ATMOSPHERE SIDE WITH ITEM 9 AND THE VACUUM SIDE WITH ITEM 10. PINNING IS 1 TO 1, & MALE TO FEMALE. AN INSERTION LOSS TEST IS PERFORMED @ 850nm, .35dB OR BETTER ALL FIBERS AND IN BOTH DIRECTIONS WITH MATING CONNECTORS. OPTICAL TESTING TO BE DOCUMENTED BOTH DIRECTIONS FOR EACH BUNDLE BY ASSEMBLY S/N.
13. FOR 5272-1 ONLY, ITEM 1 (HOUSING) SHALL BE MARKED WITH A UNIQUE SERIAL NUMBER (S/N FORMAT IS WK#, YR#, PIECE#), AND EACH FIBER BUNDLE ON THE ATMOSPHERE SIDE WILL BE LABELED A, B, C, OR D.

ITEM	QTY	PART NUMBER	DESCRIPTION
10	SEE NOTE 12 4	USC25510	CONNECTOR MTP 12 POS MM FERRULE FEMALE PIN SPACER DEMAGNETIZED USCONEC OR EQUAL
9	SEE NOTE 12 4	USC23834	CONNECTOR MTP 12 POS MM FERRULE MALE PIN DEMAGNETIZED USCONEC OR EQUAL
8	4	ZUSA-HT-3406	TUBING 1/8" ID X 1/4" OD POLYETHYLENE NATURAL
7	1	1014	NUT VS18-SS
6	1	-219 EPDM	O-RING -219 EPDM 70
5	4	PTN0.25BK	SLEEVING 1/4" BRAIDED EXPANDABLE FLEXO-PET BLACK
4	4	5272TUBING	TUBING .062 ID X .125 OD POLYETHYLENE NATURAL
3	**SEE NOTE 2 52*	K5C000040	FIBER OPTIC MULTIMODE 50/125um DRAKA SUPER RADHARD
2	A/R	PAVE-Seal 150	EPOXY BLACK
1	1	0660	HOUSING VS18-SS

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DESCRIPTION
 VS18-SS-150-48-MMFO-118-118

PART NUMBER
5272

MATERIAL NOTED

REVISION LEVEL
 E

PROJECTION

ALL DIMENSIONS AND TOLERANCES APPLY TO FINISHED PART IN INCHES.
 ALLOWABLE TOLERANCES UNLESS SPECIFIED OTHERWISE: NONE ±0.5
 X.X DECIMAL ±0.1 X.XX DECIMAL ±0.02 X.XXX DECIMAL ±0.005
 ANGLES ±1 DEGREE SURFACE FINISH 128 microinch RMS