engineering data service
electronics division

DESCRIPTION

Sylvania Type 6035 is a fixed-tuned broad band transmit-receive tube which allows the same antenna to be used for transmitting and receiving microwave energy. Designed for use with the Sylvania type 1B35A or 1B37A, ATR, it is similar to the Sylvania type 1B63A except that the tube has the added advantage of being better able to withstand high humidity and service under corrosive conditions.

FREQUENCY RANGE	8490 to 9578 mc

IGNITOR CHARACTERISTICS

Ignitor Open Circuit Voltage	—650 Vdc min.
Ignitor Current	100 μa
Ignitor Tube Drop	200 to 375 volts

LOW POWER LEVEL UNFIRED CHARACTERISTICS

Insertion Loss	0.7 db max.
Ignitor Interaction	0.2 db max.

HIGH POWER LEVEL FIRED CHARACTERISTICS

Leakage Power (Flat) (40 kw)	40 mw max.
Spike Leakage Energy at (40 kw)	0.2 erg
Recovery Time	4 usec max. @ 3 db
Arc Loss (4 kw)	0.8 db max.
Position of VSW minimum	0.065″—0.007″

TEMPERATURE AND MECHANICAL CHARACTERISTICS

Ambient Temperature Range (non-operative): —40° to 100°C
Mounting: Between standard rectangular rf choke flanges in 0.400″ x 0.900″ ID 0.050″ WT waveguide.

SYLVANIA ELECTRIC PRODUCTS INC. ELECTRONICS DIVISION
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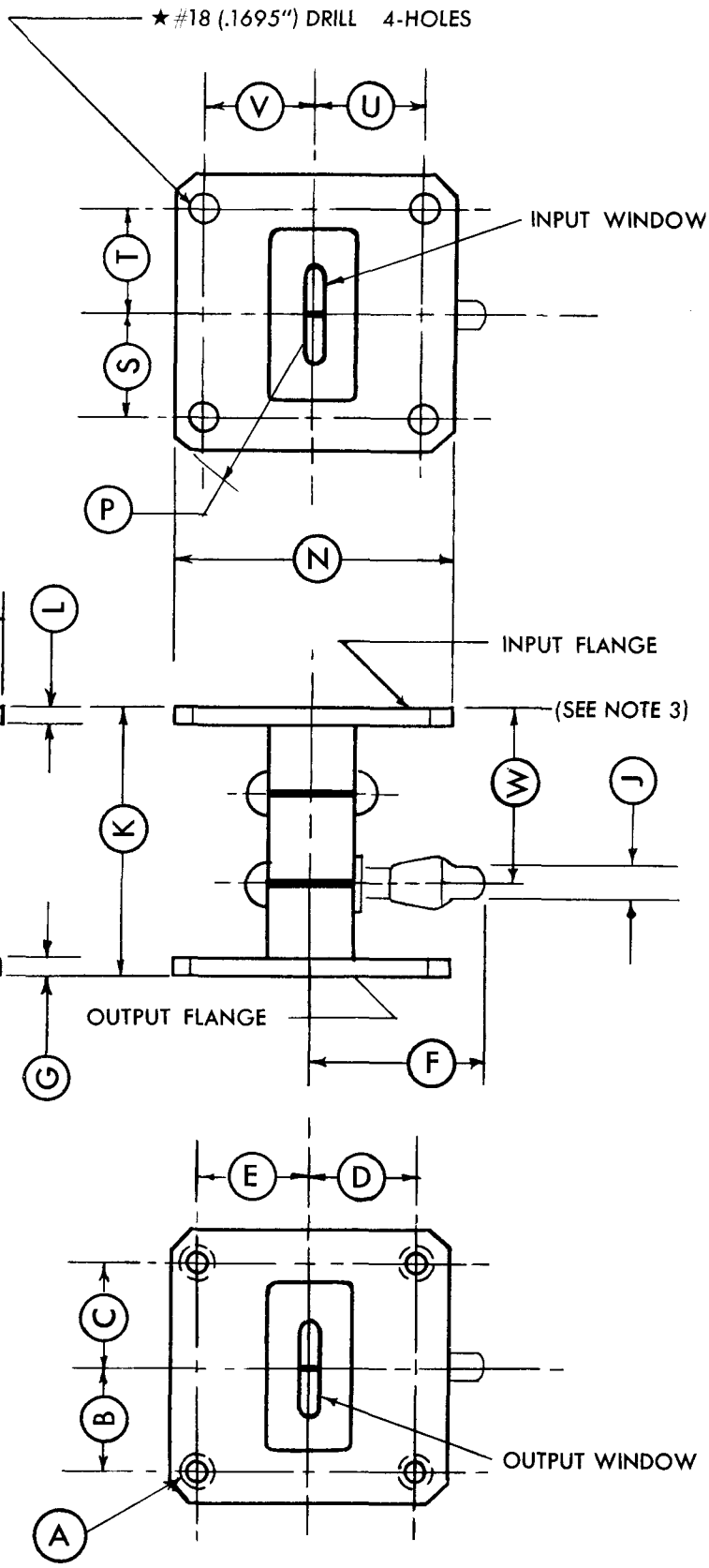
NOTE 2.

End flanges are parallel planes flat within 0.006 when measured within the area between concentric circles of 1 3/16 and 1 5/8. The area outside of the 1 5/8 circle may measure less than the minimum measured dimension by an additional 0.004.

NOTE 3.

Ignitor terminal to fall within area defined by a reference circle of 3/8 max. dia. located 1.028 nom. from outside edge of input flange.



REFERENCE	DIMENSIONS
A	*8-32 NC-2 TAP, 4-HOLES
B	.610 ± .002
C	.610 ± .002
D	.640 ± .002
E	.640 ± .002
F	1 1/8 MAX.
G	.093 ± .010
J	.250
K	1.555 ± .010
L	.093 ± .010
M	1 5/8
N	1 5/8
P	1 1/16 R.
S	.610 ± .002
T	.610 ± .002
U	.640 ± .002
V	.640 ± .002
W	1.028 NOM.