



MECHANICAL DATA

- Mounting Position: Any
Between rf choke flanges in 0.360 x 0.220
O.D. 0.040 WT waveguide.
- Ambient Temperature Range: -40 to +100° C
(non-operating)
- Frequency Change: $\Delta f_o = \pm 50$ Mc Max.
with Temperature (0 to 100°C at 34,860 Mc)
- Dimensions: See Outline

ELECTRICAL DATA

IGNITOR CHARACTERISTICS

- Ignitor Open Circuit Voltage -750 to -1000 Vdc
- Ignitor Current 200 μ Adc Max.
- Ignitor Voltage Drop at 100 μ a 200 to 350 Vdc

LOW POWER LEVEL UNFIRED CHARACTERISTICS

- Insertion Loss 2.0 db Max.
- Ignitor Interaction at 100 μ a 0.2 db Max.

HIGH POWER LEVEL FIRED CHARACTERISTICS

- Leakage Power¹ 30 Mw Max.
- Recovery Time¹ 4 μ s Max.
at -3 db

NOTE:

1. $p_o = 8$ kw; $f = 34,860$ mc; $I_z = 100$ μ Adc;
 $p_{rr} = 2000$ pps; $t_p = 0.25$ μ s or
 $p_{rr} = 1000$ pps; $t_p = 0.5$ μ s

APPLICATION DATA

Sylvania Type 5790 is a High-Q, tunable transmit-receiver tube used in high definition radar where fine resolution is the prime requisite. The specific function of this tube is to isolate the sensitive receiver from the magnetron during the transmitted pulse. The TR tube recovers within 4 microseconds using a -3 db reference level, affording minimum loss of received signal. The 5790 has an integral cavity and operates over the range between 33,815 mc and 35,905 mc.

QUICK REFERENCE DATA

The Sylvania Type 5790 is an integral cavity tunable tube designed to operate between 33,815 mc and 35,905 mc. In duplexing systems Type 5791 may be used as the companion ATR.

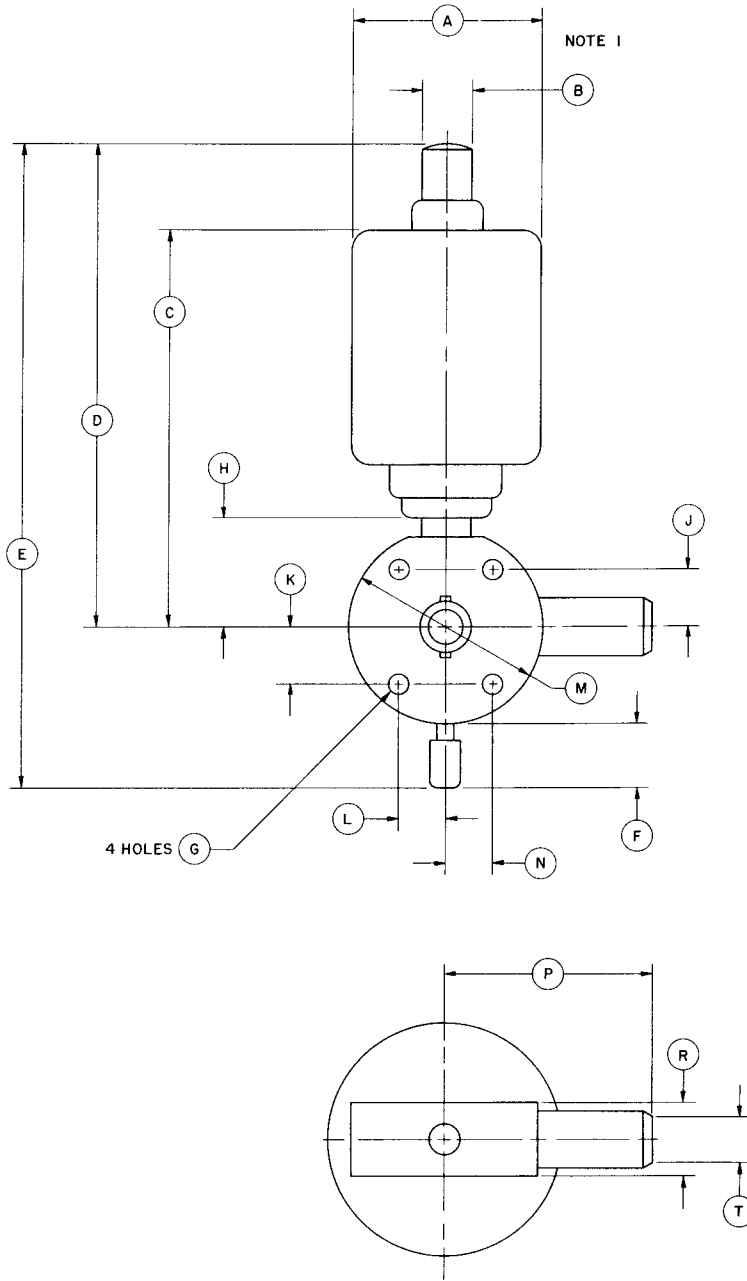
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**SYLVANIA ELECTRIC
PRODUCTS INC.**
SPECIAL TUBE OPERATIONS
WOBURN, MASS.

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OUTLINE DRAWING



REF LTR	DIMENSIONS
A	1 ¹ / ₄ MAX DIA
B	.250 DIA
C	2 ⁵ / ₁₆ MAX
D	2 ³ / ₄ MAX
E	3 ³ / ₄ MAX
F	⁹ / ₁₆ MAX
G	.120 ± .002 DIA
H	¹⁷ / ₃₂ MIN
J	.287 ± .002
K	.287 ± .002
L	.241 ± .002
M	1.009 - .999 DIA
N	.241 ± .002
P	1 ¹ / ₈ MAX
R	.368 - .360
T	.310 ± .005 DIA

NOTE 1:
 MAX PROJECTION OF RESERVOIR
 LIES WITHIN CYLINDER OF 1 ¹/₄
 DIA WITH AXIS CO-LINEAR WITH
 TUBE AXIS