DESCRIPTION

The Sylvania Type 5865 is a band-pass transmit-receive tube. It will protect a crystal detector from pulsed power greater than 4 kilowatts peak from 5395 to 5905 megacycles with a maximum voltage standing wave ratio of 1.9 and from 5450 to 5825 mc at a maximum VSWR of 1.4. In duplexing systems Sylvania Type 6081 may be used as the companion ATR.

TRANSMITTER PEAK POWER . . . . . 4 kw min.

IGNITOR CHARACTERISTICS

Ignitor Voltage	—700 volts
Ignitor Current	100 μa
Ignitor Voltage Drop	200 to 400 volts

HIGH POWER LEVEL FIRED CHARACTERISTICS*

Leakage Power Peak (300 kw)	70 mw max.
Spike Leakage Energy	0.25 erg max.
Recovery Time (40 kw)	4 μsec @ 3 db max.
Recovery Time (300 kw)	10 μsec @ 3 db max.

*$prr = 1000; Du = 0.001; f = 5650$ mc

LOW POWER LEVEL UNFIRED CHARACTERISTICS

Insertion Loss	0.8 db max.
Ignitor Interaction	0.2 db max.
Arc Loss (4 kw)	0.8 db max.

TEMPERATURE AND MECHANICAL CHARACTERISTICS

Ambient Temperature Range (non-operating): —40° to +100°C
Mounting: Between r f choke flanges (UG-148B/U or equiv.)
in 2" x 1" OD waveguide.

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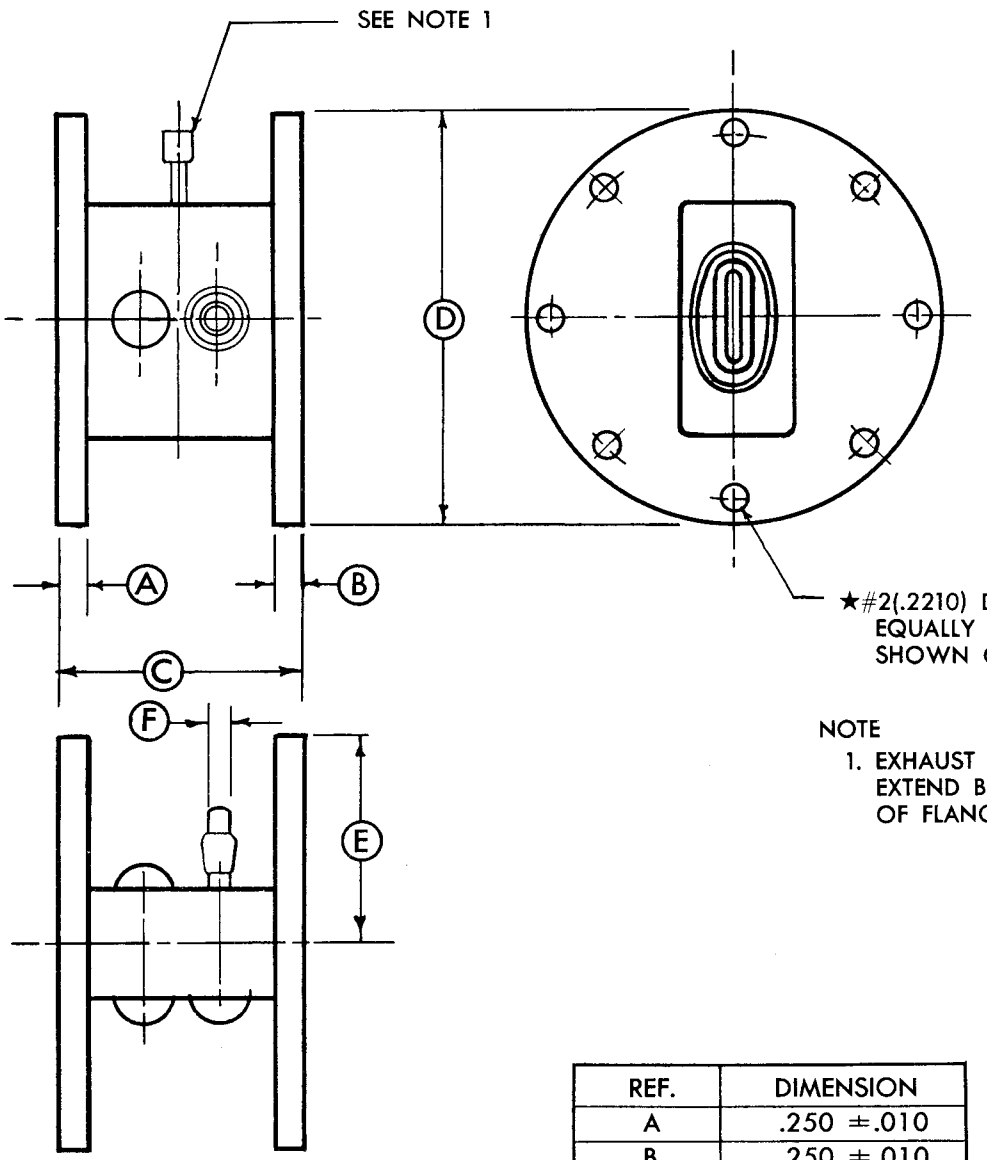

NOTE

1. EXHAUST TUBE NOT TO EXTEND BEYOND EDGE OF FLANGE.

REF.	DIMENSION
A	.250 ±.010
B	.250 ±.010
C	2.110 ±.010
D	3⅝ ±1/64
E	1 13/16 max.
F	.250