Release No. 615

October 30, 1947

SYLVANIA ELECTRIC PRODUCTS INC.

Type 1B50

The 1B50 is a tunable TR gas switching tube of the integral cavity type for the 6550 Mc range.

Electrical Data - General

Tuning Range	6000 to 7100	Mc
Leakage Power* (at 200 Kw)	60	mw max.
Insertion Loss (at 6550 Mc)	1.5	db max.
Keep-Alive Interaction (at 100 µAdc)	0.2	db max.
Recovery Time (at 200 kw; 3 db down)	12	µsec. max.
Loaded Q (at zero keep-alive current)	350	max.
Frequency Change with Temperature (0 to 100°C)	0 to -40	Mc
Keep-Alive Voltage Drop (at 100 µAdc)	300 to 450	Vdc
Keep-Alive Ignition Time	5.0	sec. max.
Keep-Alive Starting Voltage	-750	Vdc max.

Mechanical Data - General

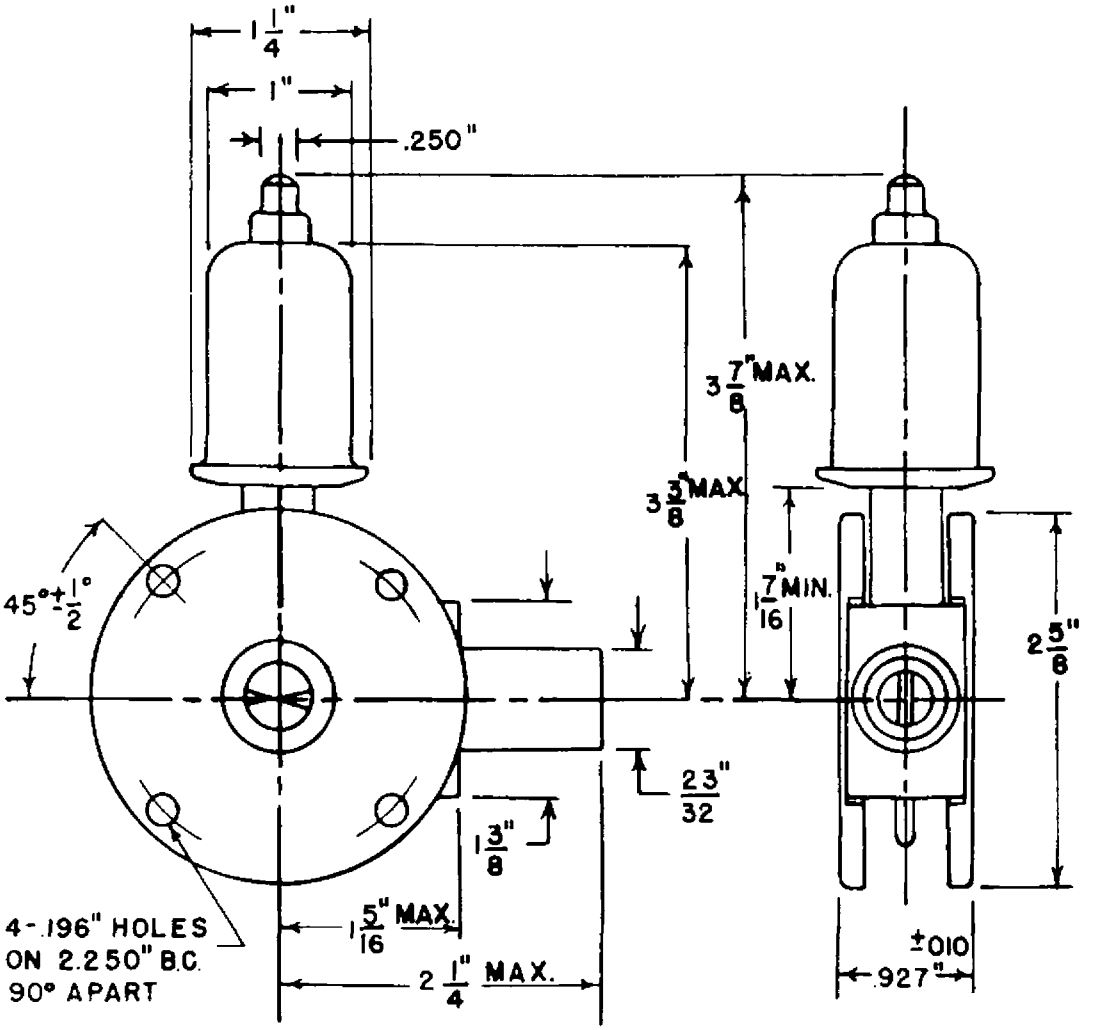
Number of Keep-Alive Electrodes	One	
Net Weight (approximate)	13	oz.
Mounting Position	Any	
Mounting	(See Note 1)	
Dimensions	(See Drawing)	

Ratings

Maximum Transmitter Peak Power	300	Kw
Keep-Alive Supply Voltage (open circuit)	-750 to -1000	Vdc
Keep-Alive Current	100 to 200	µAdc
Ambient Temperature Range	-40 to +100	°C

*total power averaged over pulse

(Note 1) Between std. R.F. choke
Flanges in 3/4" x 1 1/2" O.D.
-.064" W.T. Std. Waveguide

10/9/47

SYLVANIA ELECTRIC PRODUCTS INC.
OUTLINE DRAWING
TYPE 1B50