MECHANICAL DATA

Dimensions Per outline
Mounting Position (one gasket is supplied with each tube) Any
Ambient Temperature Range (non-operating) -40 to +100°C

ELECTRICAL DATA

RATINGS

Transmitter Peak Power (min.) 4 KW

GENERAL DATA

Center Frequency 9300 Mc
Loaded Q (Test Mount A) (max.) 6.5
Low Level Characteristics at Center Frequency
Equivalent Conductance (Test Mount A) (max.) 0.1
Tuning Susceptance (Test Mount A) ±.06 to +.06
High Level Characteristics
Arc Loss (max.) (1) 0.8 db
High Level VSWR (max.) (2) 1.15
Recovery Time (max.) (3) 8 usec

NOTES

(1) Pi = 4 KW; tp = 0.5 usec; prr = 1000 pps; f = 9025 Mc; Test Mount A or B
(2) Po = 20 KW; tp = 1.0 usec; prr = 1000 pps; f = 9025 Mc; Test Mount B
(3) Pi = 50 KW; tp = 1.0 usec; prr = 1000 pps; f = 9300 Mc. The distance between the position of the minimum in the unfired condition and the position of the minimum after the specified time interval after the magnetron pulse shall be less than .05 λ g. The probing signal shall be 9300 Mc.

APPLICATION DATA

The Sylvania Type 6396 is an anti-transmit-receive tube for use at a center frequency of 9300 Mc. It is designed to be contact mounted in the waveguide at the window end of the tube using a combination metal-rubber gasket. This makes pressurization of the waveguide easier, eliminates difficulties encountered with choke type mountings, and permits miniaturization. The Type 6396 used in pairs mounted directly opposite each other in the E-plane of the system waveguide provides broad-band protection for the receiver.

from JETEC release #1390, Dec. 27, 1954
NOTE 1: Tube is to be held firmly in position by means of clamps.

NOTE 2: Bottom of tube is to be approx. flush with inside surface of waveguide.

NOTE 3: Waveguide size for mount is RG52/U.