MECHANICAL DATA

Dimensions
Mounting Position
Ambient Temperature Range (non-operating)

Per Outline
Any (one gasket is supplied with each tube)
-40 to +100°C

ELECTRICAL DATA

Ratings
Transmitter Peak Power (min.)

4 KW

General Data
Center Frequency
Low Level Characteristics at Center Frequency Equivalent
   Equivalent Conductance (max.)
   Tuning Susceptance

5400 mc
0.1
-.06 to +.06

High Level Characteristics at Center Frequency
Arc Loss (max.) (1)
Recovery Time (max.) (2)
Firing Time (max.)

0.8 db
25 μsec
10 sec.

Notes:
(1) pk = 10 KW; tp = 1.0 μsec; prr = 1000 pps; F = 5400 mc
(2) 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 λg. The probing signal shall be 5400 mc.

APPLICATION DATA

The 6591 is a contact-mounted, C-band, ATR tube developed for application in branched duplexer in conjunction with the 6624 TR tube. Other than center frequency electrical performance is equivalent to type 6081. The contact-mount, however, decreases overall size and weight. In addition, better system performance is assured by elimination of the conventional ATR "castle", and the ever-present possibility of arcing in this type of mount.

from JETEC release #1457, May 2, 1955