

JETEC TYPE DESIGNATION REGISTRATION FORM TR TUBESManufacturers Designation: MPT-12

Date: 8-14-62

JETEC Designation: 7821Manufacturer: Metcom, Inc., Salem, Mass.General Characteristics:

The 7821 is a broad band TR tube designed to effectively decouple the receiver from a common transmitting and receiving antenna during a period of transmission. It is a separate cavity type. Its tuning range is from 432 to 450 megacycles.

Electrical Data - Typical Values

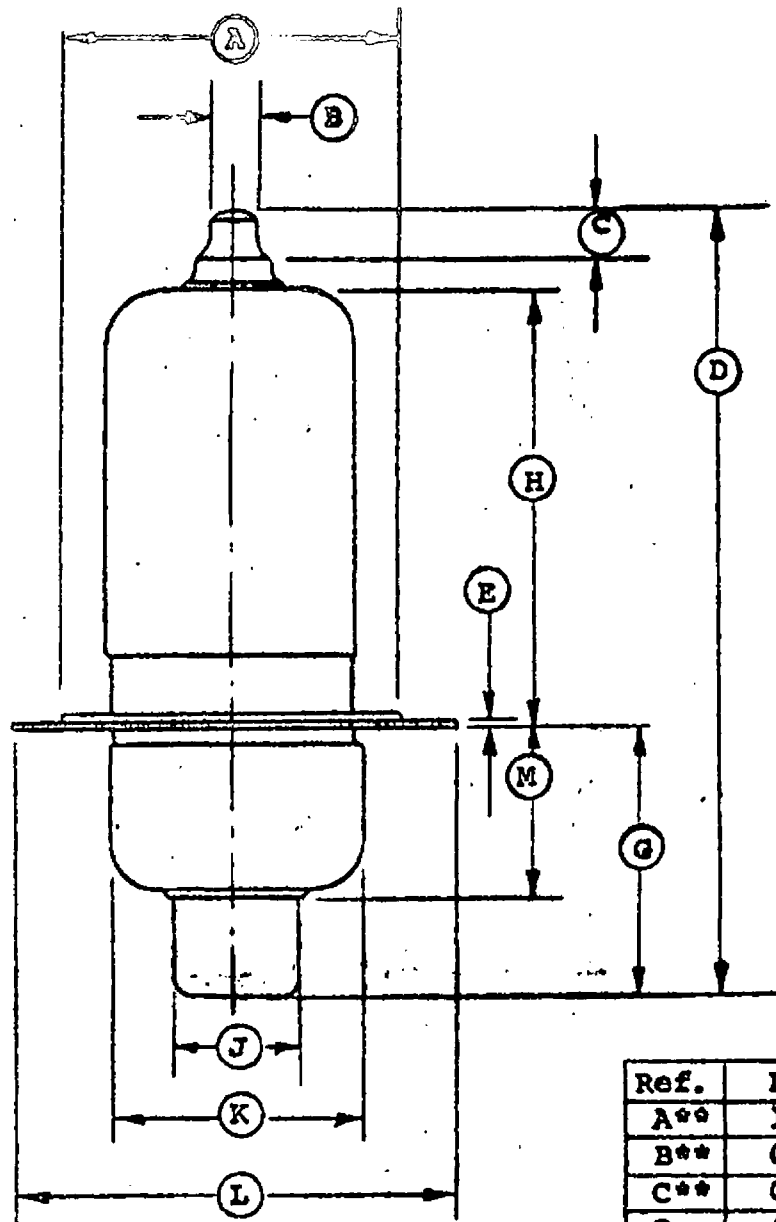
Tuning Range	432 to 450 mc/s
Peak Leakage Power 425 Mc; $P_0=2$ mw	40 w
Insertion Loss at $f_0$ Mc, $I_1=0$	1.2 db
Recovery Time at 2 mw peak, 3 db down	300 usec

Mechanical Data - General

Dimensions	Outline dated 3-1-60
Mounting Position	Any
Weight, approximately	2 oz.

Absolute Maximum Ratings

Transmitter Peak Power	2 Mw
Transmitter Average Power	200 kw
Duty Cycle	.0018
Pulse Duration	6 usec



NOTE:-Dimension J and L  
to be concentric within  
.030 .

Ref.	Dimension In Inches
A**	1.750 Max. Dia.
B**	0.250 Nom. Dia.
C**	0.240 Min.
D	4.187 Max.
E**	0.025±.005
G	1.410 Max.
H*	2.250 Ref.
J*	0.650±.005 Dia.
K*	1.375 Max.
L	2.250±.010 Dia.
M	0.830 Max.

**SPECIFICATION SHEET**

OUTLINE

7821

MICROWAVE ELECTRONIC  
TUBE CO. INC.  
76 LAFAYETTE ST.  
SALEM, MASS.

3/1/60 Rev 1