

JETEC TYPE DESIGNATION REGISTRATION FORM TR TUBESManufacturers Designation: MPT-13Date: 8-14-62JETEC Designation: 7901Manufacturer: Metcom, Inc., Salem, Mass.General Characteristics:

The 7901 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 operational band is from 300 to 600 megacycles.

Electrical Data - Typical Values

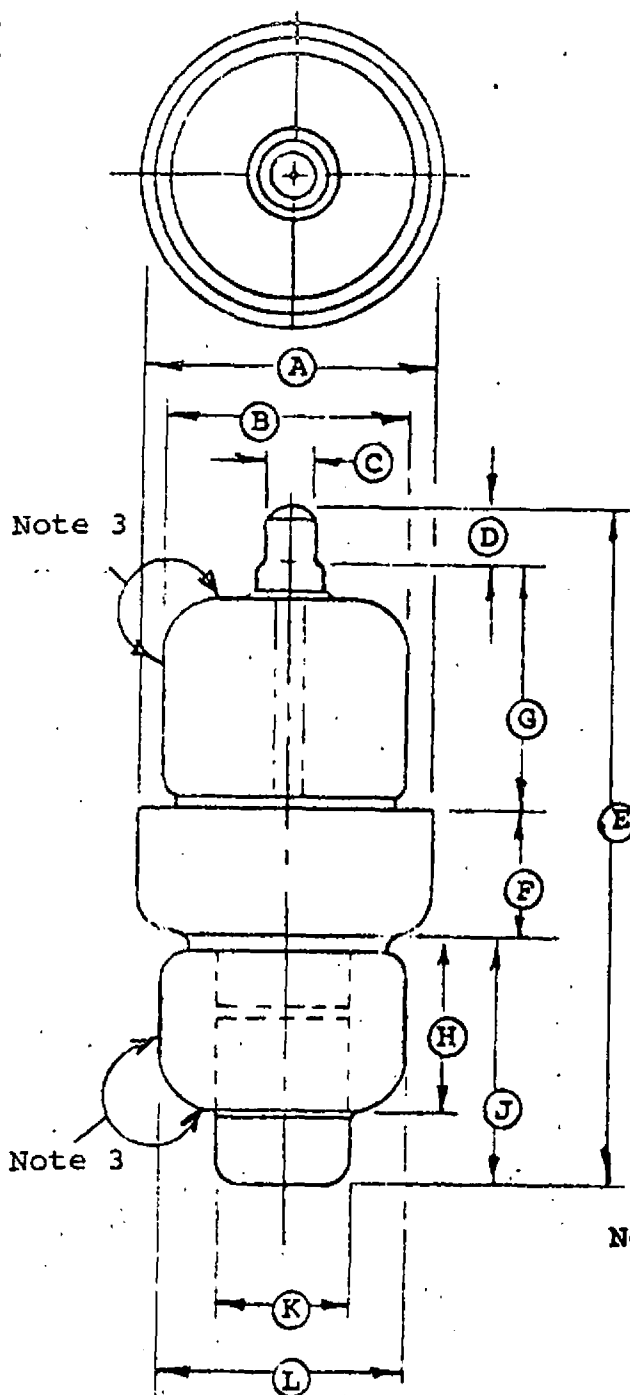
Tuning Range	459 to 461 Mc/s
Ignitor Ignition Time	5 sec.
Ignitor voltage Drop at $I_i=150\mu\text{A}_{dc}$	180 to 350 volts
Peak Leakage Power at 425Mc; $p_o=30\text{kw}$	5 w
Insertion Loss at f_o Mc, $I_i=0$	2 db
Ignitor Interaction at 461Mc, $I_i=200\mu\text{A}_{dc}$	0.2db
Recovery Time at 30 kw. peak, 3 db down	150 usec

Mechanical Data - General

Dimensions	Outline dated 7-25-60
Mounting Position	Any
Weight, approximately	2 oz.

Absolute Maximum Ratings

Transmitter Peak Power	30 kw
Transmitter Average Power	50 w
Ignitor Current	100 to 200 Vdc
Duty Cycle	.0018
Pulse Duration	6 usec
Open Circuit Ignitor Voltage (Min.)	-700 Vdc



Ref.	Dimensions
A	1.500 Dia. $\pm$.010
B	1.400 Dia. Max.
C**	0.250 Dia. Nom.
D**	0.240 Min.
E	3.600 Max.
F**	0.650 $\pm$.010
G*	1.150 $\pm$.060
H	0.830 Max.
J	1.260 $\pm$.000 $\pm$.030
K*	0.650 Dia. $\pm$.007
L	1.400 Dia. Max.

NOTES:

1. Dimensions (A) and (K) to be concentric within .020 T.I.R.
2. Diameters (B) and (L) shall not exceed a circle of 1.400 diameter concentric with diameter (A)
3. Envelope within area indicated may be either glass or

All dimensions are in inches metal.

SPECIFICATION SHEET

OUTLINE

7901

METCOM, INC.
76 LAFAYETTE ST.
SALEM, MASS.

7/25/60