

JEDEC TYPE DESIGNATION REGISTRATION FORM TR TUBESManufacturers Designation: MXT-49

Date: 8-14-62

JEDEC Designation: 8331Manufacturer: Metcom, Inc., Salem, Mass.General Characteristics

The 8331 is a broad band TR tube designed to effectively decouple the receiver from a common transmitting and receiving antenna during a period of transmission. Its operational band is from 8490 to 9578 megacycles. The 8331 when used with the 8330 maintains phase shift within 4 degrees.

Electrical Data - Typical Values

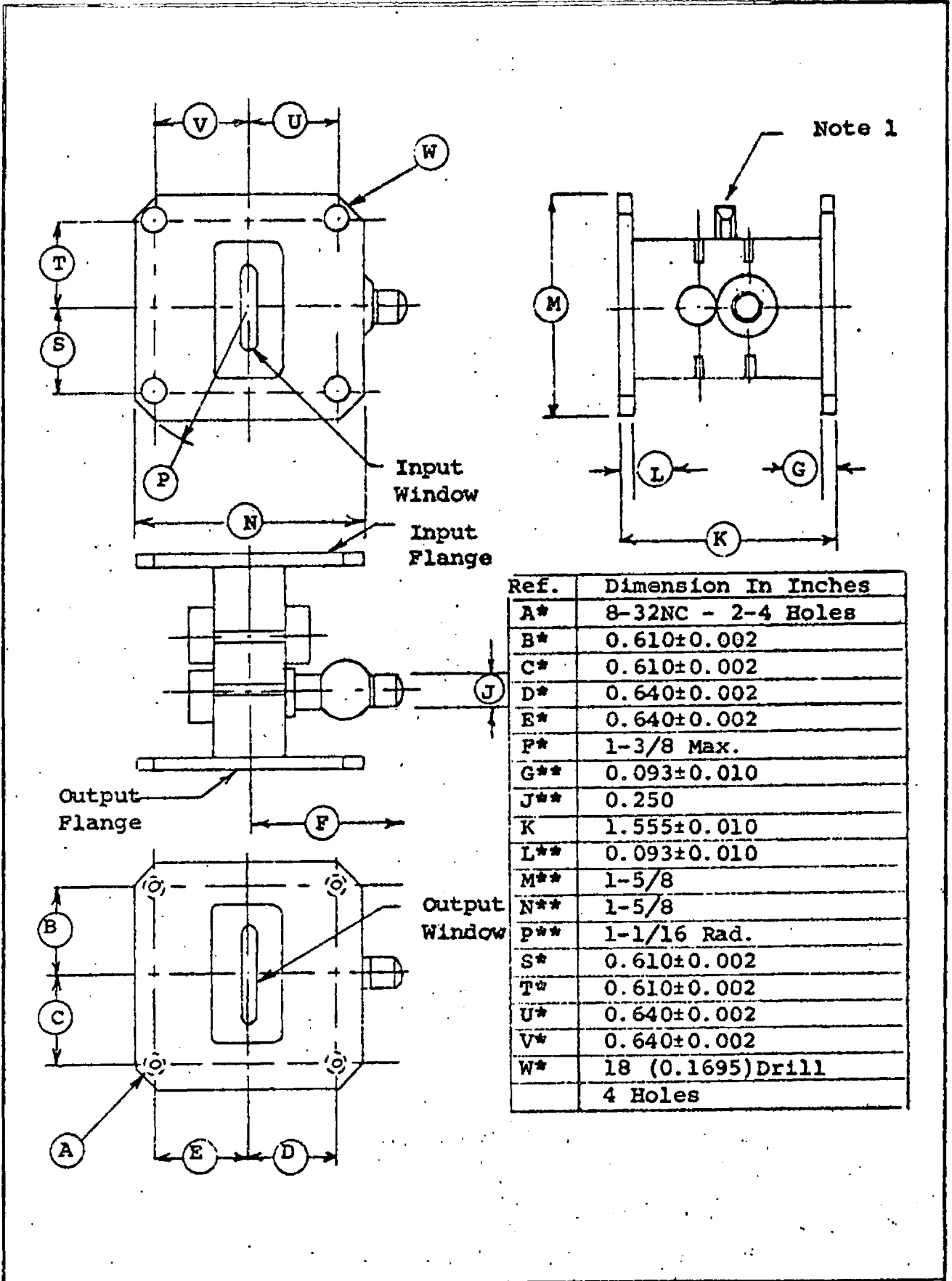
Operational Band VSWR	1.9 Max. 1.4 Max.	8490 to 9578 Mc 8565 to 9478 Mc
Ignitor Ignition Time		5.0 sec.
Ignitor Voltage Drop at $I_i=100 \text{ uAdc}$		-200 to -500 volts
Spike Leakage Energy at 9000Mc, $p_o=40\text{kw}$		0.2 ergs
Flat Leakage Power at 9000Mc, $p_o=40\text{kw}$		6.0 mw
Insertion Loss at 9000Mc, $I_i=0$		0.7 db
Ignitor Interaction at 9000Mc, $I_i=100\text{uAdc}$		0.2 db
Arc Loss at 9000Mc, $p_o=4 \text{ kw}$		0.8 db
Recovery Time at 100 kw peak, 3 db down		3.0 usec

Mechanical Data - General

Outline Dimensions	See Outline dated 10-16-59
Mounting Position	Any
Mates with -	UG-40/U Flange
Weight, approx.	3.2 oz.

Absolute Maximum Ratings

Transmitter Peak Power	100 kw
Ignitor Current	100 to 200 uAdc
Open Circuit Ignitor Voltage min.	-700Vdc
Altitude max.	10,000 ft.
Operating Temperature Max.	100°C



Ref.	Dimension In Inches
A*	8-32NC - 2-4 Holes
B*	0.610±0.002
C*	0.610±0.002
D*	0.640±0.002
E*	0.640±0.002
F*	1-3/8 Max.
G**	0.093±0.010
J**	0.250
K	1.555±0.010
L**	0.093±0.010
M**	1-5/8
N**	1-5/8
P**	1-1/16 Rad.
S*	0.610±0.002
T*	0.610±0.002
U*	0.640±0.002
V*	0.640±0.002
W*	18 (0.1695)Drill 4 Holes

- Note 1: Exhaust tube must not extend beyond flanges more than 1/4 inch.
- Note 2: Silver plate 100 MSI or equivalent.
- Note 3: End flanges shall be parallel planes flat within .006 when measured within the area between concentric circles of 1-1/4 and 1-9/16 diameter. The area outside of the 1-9/16 dia. may measure less than the minimum measured dimension, but not more than .001 above the maximum measured dimension.

SPECIFICATION SHEET

OUTLINE

8331

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