# JETEC TYPE DESIGNATION REGISTRATION FORM TR TUBES

Date: 3-25-64

JETEC Designation: 8574

Manufacturer: METCOM, INC., Salem, Mass.

## General Characteristics

The 8574 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's operational band is from 8500 to 9600 megacycles.

### Special Feature:

Low Loss, Low Noise, and a long life.

# <u>Electrical Data - Typical Values</u>

Operational Band VSWR Max. 1,25 8500	to 9600 Mc/s
Ignitor Ignition Time	1.00 sec.
Ignitor Voltage Drop at Ii=100uAdc -200	to -400 volts
Spike Leakage Energy at 8900Mc, 200kw, -55 to +85°C	0.30 ergs
Flat Leakage Power at 8900Mc, 20 kw, -55 to +85°C	100 mw
Insertion Loss at 8500 to 9600Mc, Ii=0	0,20 db
Ignitor Interaction at 8500-9600Mc, Ii=100uAdc	0.10 db
Recovery Time at 20 kw peak, 3 db down	3.00 usec
Minimum Breakdown Power at 8900Mc, 0 to +85°C	200 mw
Noise Figure Change at 8900Mc	0.40 db
Life Test at 8900Mc, 20 kw	1000 hours

# Mechanical Data - General

Dimensions See Outline dated

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Mounting Position Any

Mates with UG-136A/U

Weight, Approximately 3.2 oz.

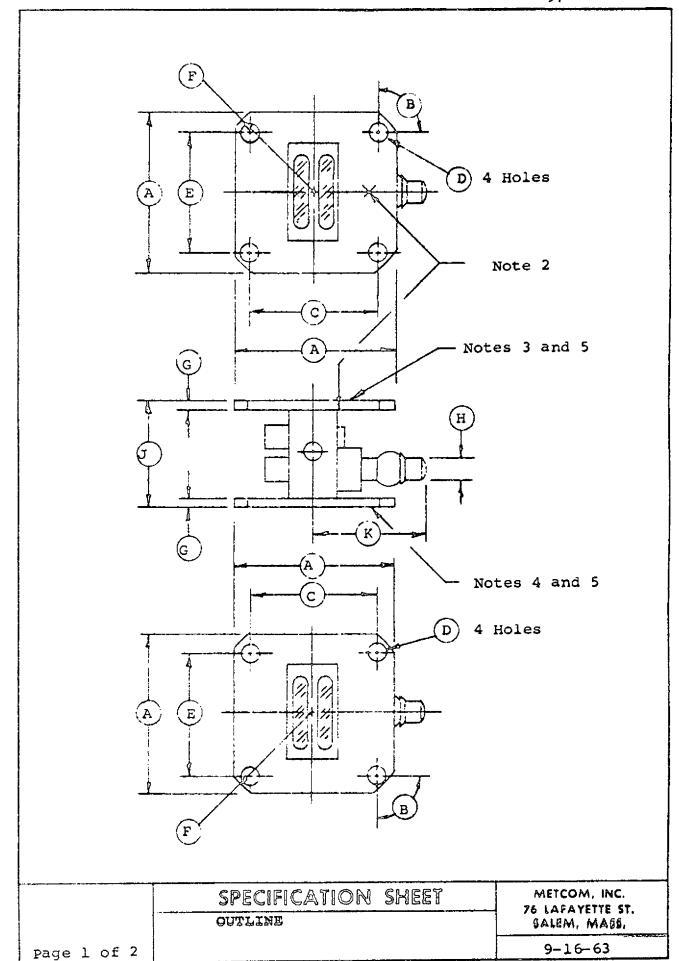
Absolute Maximum Ratings

Transmitter Peak Power 20 kw

Open Circuit Ignitor Voltage -700 Vdc

Ignitor Current 100 to 150 uAdc

Ambient Temperature -55 C to +85 C



DIM.	AQL	INSPECTION LEVEL	LIMITS	
DTLI*	%		MIN.	MAX
		QUALIFICATIO	ON TESTS	
A			1.57	1.65
F		786	1.03R	1.09R
Н			.240 Dia.	.260 Dia,
	ACC	EPTANCE INSPECTION		
В			890301	90 <sup>0</sup> 30'
D	1.0	) I	.164	.174
J			1.066	1.074
	ACC	EPTANCE INSPECTION	ON PART 2	
С		()	1.276	1.284
Е	6.5	1.6	1,216	1,224
G			.146	,156
К				1,38

#### NOTES:

- 1. Flange to mate with UG136A/2(2 places).
- Measure temperature at this point.
- 3. Input Flange.
- 4. Output Flange.
- 5. End flanges shall be parallel planes, and shall be flat within 0.006 in the area bounded by the concentric circles of 1.25 and 1.56 diameter. The area outside the ring shall be flat within +.001, -.005 of the area within the ring. The finish on the flanges shall be silver plated, 100 MSI, or equivalent.
- 6. All dimensions (exceptB) in inches.
- 7. Exhaust tube shall not extend beyond flange.

TENTATIVE	SPECIFICATION SHEET	METCOM, INC.
	OUTLINE	SALEM, MASS.
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