

JETEC TYPE DESIGNATION REGISTRATION FORM TR TUBESManufacturers Designation: MLT-13Date: 8-14-62JETEC Designation: 7823Manufacturer: Metcom, Inc., Salem, Mass.

General Characteristics:

The 7823 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 1250 to 1350 megacycles.

Designed for operation between -54 to $+52^{\circ}\text{C}$.

Electrical Data - Typical Values

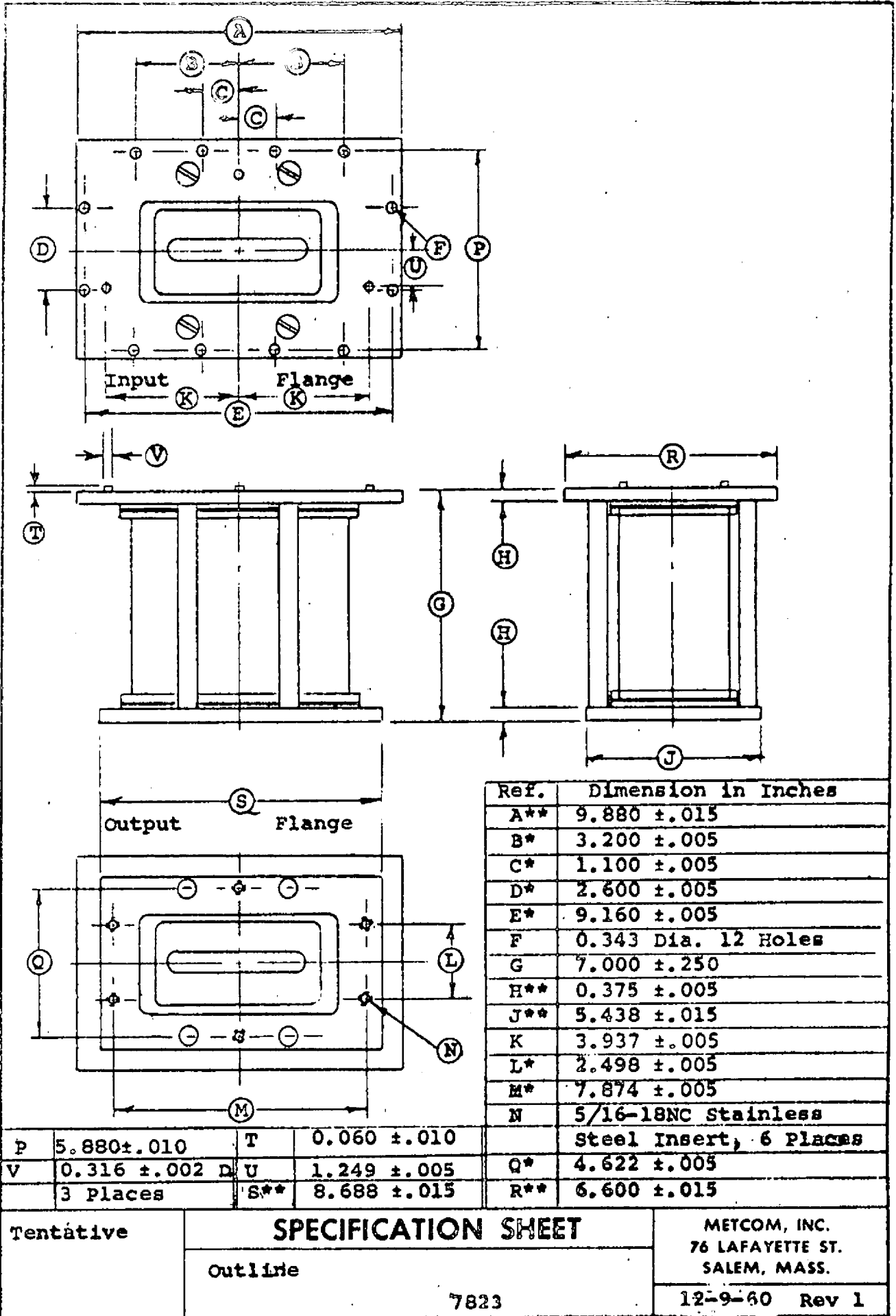
| | |
|---|-----------------|
| Operational Band VSWR 1.4 max. | 1250 to 1350 Mc |
| Flat Leakage Power at 1300Mc, $p_o=50\text{kw}$ | 0.5 w |
| Insertion Loss at 1300Mc, $I_1=0$ | 0.5 db |
| Recovery Time at 50 kw peak, 3 db down | 10 usec |
| Minimum Firing Power peak at 1300Mc | 20 w |

Mechanical Data - General

| | |
|-----------------------|-----------------------|
| Dimensions | Outline dated 12-9-60 |
| Mounting Position | Any |
| Weight, approximately | 9 lbs. |

Absolute Maximum Ratings

| | |
|---------------------------|--------------------------------|
| Transmitter Peak Power | 50 kw |
| Transmitter Average Power | 50 w |
| Operating Temperature | -54 to $+52^{\circ}\text{C}$ |
| Altitude | 10,000 ft. |



| Ref. | Dimension in Inches |
|------|--|
| A** | 9.880 ±.015 |
| B* | 3.200 ±.005 |
| C* | 1.100 ±.005 |
| D* | 2.600 ±.005 |
| E* | 9.160 ±.005 |
| F | 0.343 Dia. 12 Holes |
| G | 7.000 ±.250 |
| H** | 0.375 ±.005 |
| J** | 5.438 ±.015 |
| K | 3.937 ±.005 |
| L* | 2.498 ±.005 |
| M* | 7.874 ±.005 |
| N | 5/16-18NC Stainless Steel Insert, 6 Places |
| P | 5.880 ±.010 |
| T | 0.060 ±.010 |
| V | 0.316 ±.002 |
| U | 1.249 ±.005 |
| S** | 8.688 ±.015 |
| Q* | 4.622 ±.005 |
| R** | 6.600 ±.015 |

| | | | |
|---|-------------|-----|-------------|
| P | 5.880 ±.010 | T | 0.060 ±.010 |
| V | 0.316 ±.002 | U | 1.249 ±.005 |
| | 3 Places | S** | 8.688 ±.015 |

| | | | |
|-----------|----------------------------|---------------|--|
| Tentative | SPECIFICATION SHEET | | METCOM, INC. 76 LAFAYETTE ST. SALEM, MASS. |
| | Outline | | |
| 7823 | | 12-9-60 Rev 1 | |