

ELECTRONIC TUBE REFERENCE

CV9423

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION  
CONSTRUCTION  
KLYSTRON

Rugged reflex klystron intended specifically for airborne radar local-oscillator service under severe environmental conditions.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 6.3 V / 600 mA    | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SECTION1 Klystron                                                                                                                                                                            |
| <p>No fixed ratings recorded.</p> <p>Microwave/special-function section; schema has no directly applicable promoted electrode fields; published electrical data preserved in parameters.</p> |

Rugged reflex klystron for airborne radar.

## SOURCE OPERATING CONDITIONS

# 1971 English Electric Valve

Published test conditions and operating points. Values on this page are preserved as reported by this source.

## 1971 ENGLISH ELECTRIC VALVE

## Section 1 · Klystron

| OTHER                   |                 |                                  |
|-------------------------|-----------------|----------------------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE                 |
| Frequency range         | 9395 MHz        | Frequency range 9295 to 9395 MHz |
| Typical output power    | 40 mw           | Typical output power 40 mw       |
| Electronic tuning range | 35 MHz          | Electronic tuning range 35 MHz   |
| Heater voltage          | 6.3             | Heater voltage 6.3 \             |
| Heater current          | 600 mA          | Heater current 0.6 A             |
| Heater voltage          | 6.9             | Heater voltage 5.7 6.9 Y         |
| Resonator voltage       | 375 v           | Resonator voltage - 375 v        |
| Resonator current       | 45 mA           | Resonator current . f— 45 mA     |
| Heater voltage          | 8.3 v           | Heater voltage 8.3 v             |
| Resonator voltage       | 350 v           | Resonator voltage 350 v          |
| Load v.s.w.r            | 1 v             | Load v.s.w.r. 1.1:1 max          |

| CHARACTERISTIC                      |                 |                                                       |
|-------------------------------------|-----------------|-------------------------------------------------------|
| PARAMETER                           | PUBLISHED VALUE | CONDITION / NOTE                                      |
| Heatercurrent                       | 610 mA          | Heatercurrent . . . . . 0.b2 0.58 0.61 A              |
| Resonatorcurrent                    | 40 mA           | Resonatorcurrent . . . . . 25 33 40 mA                |
| Reflectorvoltage                    | -220            | Reflectorvoltage . . . . =170 - —220 \%               |
| Mechanical tuningrange              | 9395 MHz        | Mechanical tuningrange . . 9285 - 9395 MHz            |
| Reflector modulation<br>sen5 t V ty | 2 V             | Reflector modulation sen5 t V ty 0.b 0.7 2.0<br>MHz/V |
| of frequency                        | -200 kHz        | of frequency . . . . -B0 —130 —200 kHz/°C             |
| frequency                           | -6 MHz          | frequency . . . . . — — —6.0 MHz                      |
| output power                        | 1 db            | output power . . . . . — - 1.0 db                     |
| frequency                           | 4 MHz           | frequency . . . . . — 4.0 — MHz                       |

| PARAMETER                                                                  | PUBLISHED VALUE | CONDITION / NOTE                                                           |
|----------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------|
| output power                                                               | <b>10</b> mw    | output power . . . . 10 — — mw                                             |
| 1. Clockwise rotation of the tuner reduces the frequency. The tuner torque | <b>1</b>        | 1. Clockwise rotation of the tuner reduces the frequency. The tuner torque |
| The reflector circuit impedance must not exceed 0.5M£2. The reflector      | <b>2</b>        | . The reflector circuit impedance must not exceed 0.5M£2. The reflector    |
| With a mismatch of v.s.w.r. 1.5:1, varied through all phases               | <b>1 a</b>      | . With a mismatch of v.s.w.r. 1.5:1, varied through all phases.            |
| 8. The frequency change when the ambient pressure is increased from 76 to  | <b>76</b>       | 8. The frequency change when the ambient pressure is increased from 76 to  |

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