

ELECTRONIC TUBE REFERENCE

K3007

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

KLYSTRON

Rugged reflex klystron designed for airborne radar oscillator service.

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

Rugged reflex klystron for airborne radar.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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 sen5 t V ty	2 V	Reflector modulation sen5 t V ty 0.b 0.7 2.0 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	10 mw	output power 10 — — mw
1. Clockwise rotation of the tuner reduces the frequency. The tuner torque	1	1. Clockwise rotation of the tuner reduces the frequency. The tuner torque
The reflector circuit impedance must not exceed 0.5M£2. The reflector	2	. 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	1 a	. 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	76	8. The frequency change when the ambient pressure is increased from 76 to

TUBE TINKER

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