



ELECTRONIC TUBE REFERENCE

CV6194

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
KLYSTRON

Rugged low-voltage reflex klystron for airborne microwave service, emphasizing compact stable local-oscillator operation.

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

SECTION 1 Klystron

No fixed ratings recorded.

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

Rugged, low voltage reflex klystron for airborne service.

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	9160109340 MHz	Frequency range 9160109340 MHz
Typical output power	40 mw	Typical output power 40 mw
Electronic tuningrange	30 MHz	Electronic tuningrange 30 MHz
Heater voltage	6.3	Heater voltage 6.3 \Y
Heater current	600 mA	Heater current 0.6 A
Heater voltage	6.9	Heater voltage 5.7 6.9 \
Resonator voltage	325	Resonator voltage — 325 \Y
Resonator current	45 mA	Resonator current . R 45 mA
Heater voltage	6.3	Heater voltage 6.3 \
Resonator voltage	275 V	Resonator voltage 275 V
Load v.s.w.r	1 v	Load v.s.w.r. 1.1:1 max

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	610 mA	Heater current 052 0.68 0.61 A
Resonator current	40 mA	Resonator current 20 33 40 mA
Reflectervoltage	-100	Reflectervoltage =7b - —100 Vv
Output power	60 mw	Output power 25 40 60 mw
Mechanical tuningrange	9340 MHz	Mechanical tuningrange . . . 9160 - 9340 MHz
Reflector modulation sensitivity	1.5 MHz	Reflector modulation sensitivity . 0.5 - 1.5 MHz/v
frequency pulling	6 MHz	frequency pulling — 4.0 6.0 MHz
output power	10	output power 10 — - mW
of frequency	-200 kHz	of frequency B0 -130 —200 kHz/°C

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
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
6. With a mismatch of v.s.w.r. 1.56:1, varied through all phases	1 a	6. With a mismatch of v.s.w.r. 1.56:1, varied through all phases.
7. The change in output power, measured between 40 seconds and 3 minutes	3	7. The change in output power, measured between 40 seconds and 3 minutes

TUBE TINKER

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