

ELECTRONIC TUBE REFERENCE

K391A

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

KLYSTRON

Rugged reflex klystron designed for airborne radar and similar microwave oscillator applications.

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.

il Rugged reflex klystron for airborne radar and similar applications.

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	8885 MHz	Frequency range 8800to8885 MHz
Typical output power	80 mW	Typical output power 80 mW
Electronic tuningrange	40 MHz	Electronic tuningrange 40 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	400	Resonator voltage — 400 \Y
Resonator current	50 mA	Resonator current . = 50 mA
Heater voltage	6.3 V	Heater voltage 6.3 V
Resonator voltage	350	Resonator voltage 350 \Y,
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 052 0.568 0.61 A
Resonator current	38 mA	Resonator current 20 30 38 mA
Reflector voltage	-200	Reflector voltage =140 — —200 \Y
Output power	60 mw	Output power 40 60 — mw
Mechanical tuningrange	8885 MHz	Mechanical tuningrange . . 8800 - 8885 MHz
Reflector modulation sensmvm/	1.5 MHz	Reflector modulation sensmvm/ 0.5 1.0 1.5 MHz/V
of frequency	-200 kHz	of frequency —50 -100 —200 kHz/°C
frequency	10 MHz	frequency =— — 10 MHz
output power	1 db	output power ~— — 1.0 db

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
1. Clockwise rotation of the tuner reduces the frequency	1	1. Clockwise rotation of the tuner reduces the frequency.
2. The resonator is'normally operated at earth potential and in good thermal	2	2. The resonator is'normally operated at earth potential and in good thermal
4. The reflector circuit impedance must not exceed 0.5M£2. The reflector	2	4. The reflector circuit impedance must not exceed 0.5M£2. The reflector
must never become positive with respect lo cathode	1	must never become positive with respect lo cathode.
The frequency change when the ambient pressure is increased from 76 to	76	. The frequency change when the ambient pressure is increased from 76 to

TUBE TINKER

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