

Forced-air-cooled fixed-frequency two-cavity klystron oscillator for airborne Doppler systems, emphasizing low noise modulation and high frequency stability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.6 A	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.

Forced-air cooled, fixed frequency, two cavity oscillator klystron for airborne doppler. It features low noise modulation and good frequency stability, and can be used at high altitudes without pressurizing. Frequency (see note 1) 8800%5 MHz Typical output power 1b W Electronic tuningrange 12 MHz Output tono. 16 waveguide (0.900 x 0.400 inch internal) Coupler UG-39/U (154 1.E.C.-UBR100) June 1973 65

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
Typical output power	1 W	Typical output power 1b W
Electronic tuningrange	12 MHz	Electronic tuningrange 12 MHz
Heater voltage	6.3	Heater voltage 6.3 \Y
Heater current	1.6 A	Heater current 1.6 A
Heater voltage	6.8	Heater voltage 5.8 6.8 \
Resonator dissipation	130 W	Resonator dissipation . - 130 W
Heater voltage	6.3	Heater voltage 6.3 \%
Load v.s.w.r	1 v	Load v.s.w.r. 1.1:1 max
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.

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	1.75 A	Heater current 1.5 1.6 1.75 A
Frequency	88056 MHz	Frequency . 8795 8800 88056 MHz
Beam current	80 mA	Beam current 55 70 80 mA
Output power	25 W	Output power 1.0 1.5 25 W
of frequency	-100 kHz	of frequency -100 — kHz/°C

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