



ELECTRONIC TUBE REFERENCE

5K70SH

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
KLYSTRON

S-band power-amplifier klystron designed specifically for industrial heating, using forced-air and water cooling.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 11.5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Klystron

No fixed ratings recorded.

Promoted fields populated from published ratings/characteristics; additional published values retained in TUBE_SECTION_PARAMETER.

S-band power-amplifier klystron designed for industrial heating; forced-air and water cooled. Published heater, frequency, beam, collector and output-power data are captured from the source.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 Eimac

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

1962 EIMAC

Section 1 · Klystron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Warm-up Time	5 min	—
Frequency	2450 MHz	—
Rated Output Power	30 kW	—
Minimum Power Gain	50 dB	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Beam Voltage	23 kV	—
Maximum Beam Current	3 A	—
Maximum Beam Input Power	70 kW	—
Maximum Collector Dissipation	70 kW	—
Typical Output Power	31.5 kW	Frequency=2450MHz
Typical Beam Voltage	22.5 kV	Frequency=2450MHz
Typical Beam Current	2.66 A	Frequency=2450MHz
Typical Efficiency	52.5 percent	Frequency=2450MHz

TUBE TINKER

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and their source documents.

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