



ELECTRONIC TUBE REFERENCE

6K50000LQ

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
KLYSTRON

Six-cavity L-band continuous-wave power-amplifier klystron using a bombardment-heated cathode for high-power microwave amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	8 V / 40 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.

Six-cavity L-band CW power-amplifier klystron; bombardment-heated cathode. 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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Starting Current Maximum	80 A	—
Maximum DC Beam Voltage	20 kV	—
Maximum DC Beam Current	2.5 A	—
Maximum Collector Dissipation	50 kW	—
Typical Output Power	9 kW	Narrow-band
Typical Power Gain	35.9 dB	Broad-band data column

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum Warm-up Time	30 s	—
Bombardment Cathode Voltage	2280 V	—
Bombardment Cathode Current	700 mA	—
Frequency Range	720–985 MHz	—

TUBE TINKER

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and their source documents.

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