ELECTRONIC TUBE REFERENCE

5K50CB

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
KLYSTRON

Five-cavity C-band power-amplifier klystron designed for high-power tropospheric-scatter communications service.

General characteristics

BASE DESIGNATION	_	**BASE PINS**	_
NOMINAL HEATER	10 V / 3 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.

C-band five-cavity power-amplifier klystron for tropospheric-scatter communications. Published heater, frequency, beam, collector and output-power data are captured from the source.

SOURCE OPERATING CONDITIONS

1962 Eimac

SOURCE PDF

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 Range	**4400–5000 MHz**	—
Rated Output Power	**10 kW**	—
Minimum Power Gain	**60 dB**	—

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum DC Beam Voltage	**17.5 kV**	—
Maximum DC Beam Current	**2.5 A**	—
Maximum DC Beam Input Power	**50 kW**	—
Maximum Collector Dissipation	**50 kW**	—
Typical Output Power	**10 kW**	Frequency=4700MHz
Typical Beam Voltage	**15 kV**	Frequency=4700MHz
Typical Beam Current	**2 A**	Frequency=4700MHz
3 dB Bandwidth	**15 MHz**	Frequency=4700MHz

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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