ELECTRONIC TUBE REFERENCE

X1117

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
KLYSTRON

Ceramic-metal reflex klystron covering 11.2–11.7 GHz with waveguide output and conduction or convection cooling.

General characteristics

BASE DESIGNATION	_	**BASE PINS**	_
NOMINAL HEATER	6.3 V / 1.3 A	**PARALLEL HEATER**	_ / _
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Klystron

MAXIMUM CATHODE CURRENT	110 mA

Microwave-device ratings have no dedicated promoted voltage/dissipation columns in this schema; applicable maximum cathode current is promoted and specialized published ratings are preserved in TUBE_SECTION_PARAMETER.

Ceramic/metal reflex klystron, 11.2–11.7 GHz, waveguide output, conduction/convection cooled.

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**
Frequency Range	**11.2–11.7**	—
Electronic Tuning Range	**40 MHz**	3 dB bandwidth
Modulation Sensitivity	**1.5 MHz/V**	—
Warm-up Time	**30 s**	—

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Typical Output Power	**1000 mW**	—
Typical DC Resonator Voltage	**750 V**	—
Typical DC Cathode Current	**90 mA**	—
Typical DC Repeller Voltage	**-300 V**	Negative with respect to cathode
Maximum DC Resonator Voltage	**900 V**	—
Maximum DC Cathode Current	**110 mA**	—
Peak Repeller Voltage Negative	**-1000 V**	With respect to cathode
Peak Repeller Voltage Positive	**-50 V**	With respect to cathode

TUBE TINKER

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

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