ELECTRONIC TUBE REFERENCE

X1116B

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
KLYSTRON

Ceramic-metal reflex klystron covering 11.7–12.2 GHz with conduction or convection cooling.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	–
NOMINAL HEATER	6.3 V / 1 A	**PARALLEL HEATER**	– / –
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Klystron

MAXIMUM CATHODE CURRENT	45 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, 11.7–12.2 GHz, 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	**11.7–12.2**	—
Electronic Tuning Range	**40 MHz**	3 dB bandwidth
Modulation Sensitivity	**2.5 MHz/V**	—
Warm-up Time	**30 s**	—

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Typical Output Power	**30 mW**	—
Typical DC Resonator Voltage	**300 V**	—
Typical DC Cathode Current	**25 mA**	—
Typical DC Repeller Voltage	**-100 V**	Negative with respect to cathode
Maximum DC Resonator Voltage	**425 V**	—
Maximum DC Cathode Current	**45 mA**	—
Peak Repeller Voltage Negative	**-400 V**	With respect to cathode
Peak Repeller Voltage Positive	**-25 V**	With respect to cathode

Tube Tinker

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

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