ELECTRONIC TUBE REFERENCE

X1115B

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
KLYSTRON

Low-noise conduction-cooled reflex klystron designed for local-oscillator service over 12.2–12.7 GHz.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	–
NOMINAL HEATER	6.3 V / 800 mA	**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 conduction-cooled low-noise reflex klystron for local-oscillator service, 12.2–12.7 GHz.

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	**12.2–12.7**	—
Electronic Tuning Range	**35 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	**26 mA**	—
Typical DC Repeller Voltage	**-130 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	**0 V**	With respect to cathode
Maximum Resonator Dissipation	**20 W**	—

Tube Tinker

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

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