



ELECTRONIC TUBE REFERENCE

X1118

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
KLYSTRON

Ceramic-metal reflex klystron covering 10.7–11.2 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
<i>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.</i>	

Ceramic/metal reflex klystron, 10.7–11.2 GHz, waveguide output, conduction/convection cooled.

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Range	10.7–11.2	—
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