



ELECTRONIC TUBE REFERENCE

1K20XNA

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
KLYSTRON

Ceramic-metal X-band reflex klystron specially designed as a parametric-amplifier pump source, factory preset across approximately 8.5 to 11 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

SECTION 1 Klystron	
MAXIMUM CATHODE CURRENT	50 mA
<i>Reflex klystron: specialized resonator/repeller ratings have no direct promoted columns and are preserved in TUBE_SECTION_PARAMETER; published maximum cathode current is promoted.</i>	

Ceramic-and-metal X-band reflex klystron especially suited for parametric-amplifier pump applications, factory preset across 8.5 to 11.0 GHz.

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	8500–11000 MHz	—
Published Output Power	150 mW	Minimum or typical as stated by source
Warm-up Time	30 s	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Resonator Voltage	450 V	—
Maximum Resonator Dissipation	20 W	—
Maximum Negative Repeller Voltage	500 V	Negative with respect to cathode
Maximum Positive Repeller Voltage	0 V	Positive with respect to cathode
Typical DC Resonator Voltage	400 V	—
Typical DC Cathode Current	40 mA	—
Typical Power Output	200 mW	—

TUBE TINKER

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and their source documents.

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