

ELECTRONIC TUBE REFERENCE

X700

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
KLYSTRON

Rugged four-cavity S-band pulse-amplifier klystron designed for high-power pulsed microwave service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1	Klystron
MAXIMUM CATHODE CURRENT	36.3 A
Klystron electron-beam device. Fixed TUBE_SECTION schema has no beam-voltage or collector-dissipation fields; those ratings are preserved as parameters.	

The EIMAC X700 is a four-cavity rugged s-band pulse-amplifier klystron.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC beam voltage	28000 V	—
Maximum/peak beam current	36.3 A	—
Maximum collector dissipation	2500 W	—
Rated/minimum output power	20000 W	—
Power gain	40 dB	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency range minimum	2.4 GHz	—
Frequency range maximum	2.9 GHz	—

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