

ELECTRONIC TUBE REFERENCE

X850

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
KLYSTRON

High-power Eimac X-band/SHF klystron designed for radar astronomy, precision tracking, and space-communications microwave transmission.

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	3.5 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 X850 is a high-power x-band/shf klystron for radar astronomy, tracking and space communications.

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/peak beam current	3.5 A	—
Maximum collector dissipation	70000 W	—
Rated/minimum output power	20000 W	—
Power gain	43 dB	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency range minimum	7.125 GHz	—
Frequency range maximum	8.5 GHz	—