



ELECTRONIC TUBE REFERENCE

3K20000LA

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

KLYSTRON

Eimac power-amplifier klystron for 470–580 MHz UHF television transmitting service, designed for high-power visual broadcast amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	9 V / 39 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Klystron

MAXIMUM CATHODE CURRENT	1.7 A
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Klystron electron-beam section. Schema has no beam-voltage/collector-dissipation promoted fields; those published ratings are preserved below as parameters. MaxCathodeCurrent uses published maximum beam current where available.

The EIMAC 3K20000LA is a 470–580 MHz L-band/UHF television power-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	14000 V	—
Maximum DC beam current	1.7 A	—
Maximum collector dissipation	20000 W	—
power gain of approximately 20 db. The cavities of the Eimac UHF ftelevision	—	—
PnvnngoP(;wel; (approximately)® - - 33:3*! Lflrfl's tion. The output power is useful power measured in a load circuit.	—	—
of power gains of about 13 db and efficiencies of	—	—
as 1939,! its application to high-power generation was capable of power gains of about 20 to 30 db, and	—	—
drift-tube walls.) If the tube is used as a linear Considering now the power gain, this becomes less as	—	—
Considering the power gain of a klystron, this is band frequency, and loaded for optimum performance	—	—
OUTPUT POWER	—	—
Fig. 3—Output power versus driving power for klystron.	—	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
(independent of output power). This is the efficiency at the ENVELOPE OF MAX. EFFICIENCIES FOR	—	—
about 5 mc and the power gain, under television condi- to achieve the necessary bandwidth.	—	—
the useful frequency range of a given tube, even if the it is evident that the klystron scores heavily in all re-	—	—
power gain. Also, the construction of a klystron stage is	—	—

TUBE TINKER

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