



ELECTRONIC TUBE REFERENCE

4KM3000LQ

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
KLYSTRON

Four-cavity magnetically focused power-amplifier klystron covering approximately 710–985 MHz and delivering roughly 2 kW CW output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Klystron

No fixed ratings recorded.

Single electrical section; values mapped from printed ratings/characteristics. Klystron represented as SectionType Other because the canonical section vocabulary has no Klystron section type.

The Eimac 4KM3000LQ is a four-cavity, magnetically focused, power-amplifier klystron of ceramic and metal. It is designed for use at frequencies between 710 and 985 megacycles and will deliver a minimum CW output power of two kilowatts with a minimum power gain of 25 decibels when operated at 50% collector depression.

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
The Eimac	0 a	The Eimac 4KM3000LQ is a four-cavity, magnetically focused,
use at frequencies between	985 megacycles	use at frequencies between 710 and 985 megacycles and will deliver
Heater: Voltage	5 volts	Heater: Voltage - - - 5 volts
Current	33 amperes	Current - - - 33 amperes
Maximum Starting Current	65 amperes	Maximum Starting Current - 65 amperes
(To other electrodes)	21 uuf	(To other electrodes) - - - 21 uuf
Output Power (Narrow Band CW)	2000 watts	Output Power (Narrow Band CW) - 2000 watts
Frequency Range (In H	985 megacycles	Frequency Range (In H-118 - 710 to 985 megacycles
Output	50 ohm	Output - - - - - 1-5/8 inch 50-ohm line
of	68 °C	of 20°C (68°F) the flow rates tabulated below are sufficient for operation at maximum
Prefocus Coil Voltage	0 volts	Prefocus Coil Voltage - - - - - 0to50 volts
Prefocus Coil Current	2 amperes	Prefocus Coil Current - - - - - 2.0 amperes
Voltage	100 volts	Voltage - - - - - 0to 100 volts
Current	3 amperes	Current - - - - - 3.0 amperes
Collector Coil Voltage	50 volts	Collector Coil Voltage - - - - - 0to 50 volts
Collector Coil Current - - - - - - 0	1.5 amperes	Collector Coil Current - - - - - 0to 1.5 amperes
D-C BEAM VOLTAGE	10000 VOLTS	D-C BEAM VOLTAGE - - - - - 10,000 VOLTS
D-C BEAM CURRENT	0.75 AMPERE	D-C BEAM CURRENT - - - - - 0.750 AMPERE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D-C FOCUS ELECTRODE VOLTAGE	500 VOLTS	D-C FOCUS ELECTRODE VOLTAGE - - - - -500 VOLTS
COLLECTOR DISSIPATION - - ~	3000 WATTS	COLLECTOR DISSIPATION - - ~ - 3000 WATTS
SEAL TEMPERATURES	175 DEGREES C	SEAL TEMPERATURES - - - - - 175 DEGREES C
Frequency	900 megacycles	Frequency - - - - - 900 megacycles
Output Power	2150 watts	Output Power - - - - - 2150 watts
Driving Power	4 watts	Driving Power - - - - - 4.0 watts
D-C Beam Voltage	9000 volts	D-C Beam Voltage - - - - - 9000 volts
D-C Beam Current	0.58 amperes	D-C Beam Current - - - - - 0.580 amperes
D-C Collector Voltage (from Cathode)	4500 volts	D-C Collector Voltage (from Cathode) - - - - 4500 volts
D-C Collector Current	0.21 amperes	D-C Collector Current - - - - - 0.210 amperes
D-C Body Current	0.37 amperes	D-C Body Current - - - - - 0.370 amperes
Focus Electrode Voltage	200 volts	Focus Electrode Voltage - - - - -200 volts
Printed in U.S.A	890 A	Printed in U.S.A. 890

TUBE TINKER

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