

ELECTRONIC TUBE REFERENCE

4K3CB

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
KLYSTRON

Air-cooled permanent-magnet-focused power-amplifier klystron covering approximately 4.4–5.0 GHz and delivering at least one kilowatt CW output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	–	BASE PINS	–
NOMINAL HEATER	6.5 V / –	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 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 4K3CB is an air cooled, permanent magnet focused, power amplifier kly~ stron. It will deliver a minimum CW output power of one kilowatt at frequencies from 4.4 to 5.0 kMc, with a minimum power gain of 43 db. The 4K3CB is designed for use in transmitters where compactness and light weight are essential.

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
stron. It will deliver a minimum CW output power of one kilowatt at frequencies from	4.4 a	stron. It will deliver a minimum CW output power of one kilowatt at frequencies from 4.4
to	4 a	to 5.0 kMc, with a minimum power gain of 43 db. The 4K3CB is designed for use in
MINIMUM POWER GAIN	43 db	MINIMUM POWER GAIN. . 43 db
Heater: Voltage. v v v i i e e e e	6.5 volts	Heater: Voltage. v v v i i e e e e 6.5 volts
Current v o i i e	7.5 amperes	Current v o i i e 7.5 amperes
Maximum Starting Current	15 amperes	Maximum Starting Current 15 amperes
(Effective	1962 A	(Effective 10-16-62) Copyright 1962 by Eitel-McCullough, Inc. Printed in U.S.A.
DCBEAMCURRENT v v i v i v o o v	0.6 AMPERE	DCBEAMCURRENT v v i v i v o o v 0.6 AMPERE
DC BEAM INPUT POWER v o o	4 KILOWATTS	DC BEAM INPUT POWER v o o 4 KILOWATTS
COLLECTOR DISSIPATION ¢ i v v v vt v v o v v v	4 KILOWATTS	COLLECTOR DISSIPATION ¢ i v v v vt v v o v v 4 KILOWATTS
Output Power ¢ v v v v e v	1.22 kilowatts	Output Power ¢ v v v v e v .. 1.42 1.32 1.22 kilowatts
DCBeamCurrent	0.465 ampere	DCBeamCurrent. 0.465 0.465 0.465 ampere
Half Power Bandwidth	9 megacycles	Half Power Bandwidth 7.5 8 9 megacycles