ELECTRONIC TUBE REFERENCE

4K3SJ

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
KLYSTRON

Compact air-cooled permanent-magnet-focused power-amplifier klystron covering approximately 1.7–2.4 GHz and delivering at least one kilowatt output.

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

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 4K3S] is an air cooled, permanent mag- net focused, power-amplifier klystron designed to oper- ate at frequencies from 1700 to 2400 MHz. It will deliver a minimum output power of 1 kilowatt with minimum power gain of 40 decibels. The 4K3S] is intended for use in applications where light weight and compactness are essential.

SOURCE OPERATING CONDITIONS

1962 Eimac

SOURCE PDF

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**
ate at frequencies from	**2400 MHz**	ate at frequencies from 1700 to 2400 MHz. It will deliver
a minimum output power of	**1 a**	a minimum output power of 1 kilowatt with minimum
Frequency	**2400 MHz**	Frequency - - - - - - - - - - - 1700-2400 MHz
Minimum Power Gain	**40 db**	Minimum Power Gain - - - - - - - - - 40 db
(Revised	**1966 A**	(Revised 7-1-66) © 1962, 1966 Varian Printed in U.S.A.
SIEl (SIS |	**6 a**	SIEl (SIS |9 S| a 6 ot || o
Cooling - - - - - - - - -« - - - + - - Forced Air (	**20 °C**	Cooling - - - - - - - -« - - - + - - Forced Air (20°C at sea level)
RF Output Coupling - - - - - - - -«	**50 ohm**	RF Output Coupling - - - - - - -« - - - . . 154 inch, 50-ohm line
DC BEAM CURRENT	**0.6 AMPERE**	DC BEAM CURRENT - - - - - - - - - - - - - 0.6 AMPERE
DC BEAM INPUT POWER S	**4 KILOWATTS**	DC BEAM INPUT POWER S 4 KILOWATTS
COLLECTOR DISSIPATION	**4 KILOWATTS**	COLLECTOR DISSIPATION - - - - - - - - - - - 4 KILOWATTS
CATHODE SEAL TEMPERATURE	**150 DEGREES C**	CATHODE SEAL TEMPERATURE - - - - - - - - - - 150 DEGREES C
Output Power	**1.03 kilowatts**	Output Power - - - - - - - - 17 1.08 1.03 kilowatts
DC Beam Current	**0.56 ampere**	DC Beam Current - - - - - - - - 0.54 0.54 0.56 ampere

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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