



E I M A C
 Division of Varian
 S A N C A R L O S
 C A L I F O R N I A

4K3SJ

**POWER AMPLIFIER
 S-BAND KLYSTRON**

The EIMAC 4K3SJ is an air cooled, permanent magnet focused, power-amplifier klystron designed to operate 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 4K3SJ is intended for use in applications where light weight and compactness are essential.

FEATURES

- PERMANENT MAGNET FOCUSING
- FOUR INTEGRAL CAVITIES
- LOW NOISE LEVEL
- FIXED INPUT AND OUTPUT COUPLING
- TWO LIFTING HANDLES FOR EASE OF HANDLING
- INSTANT FAULT RECYCLING



CHARACTERISTICS

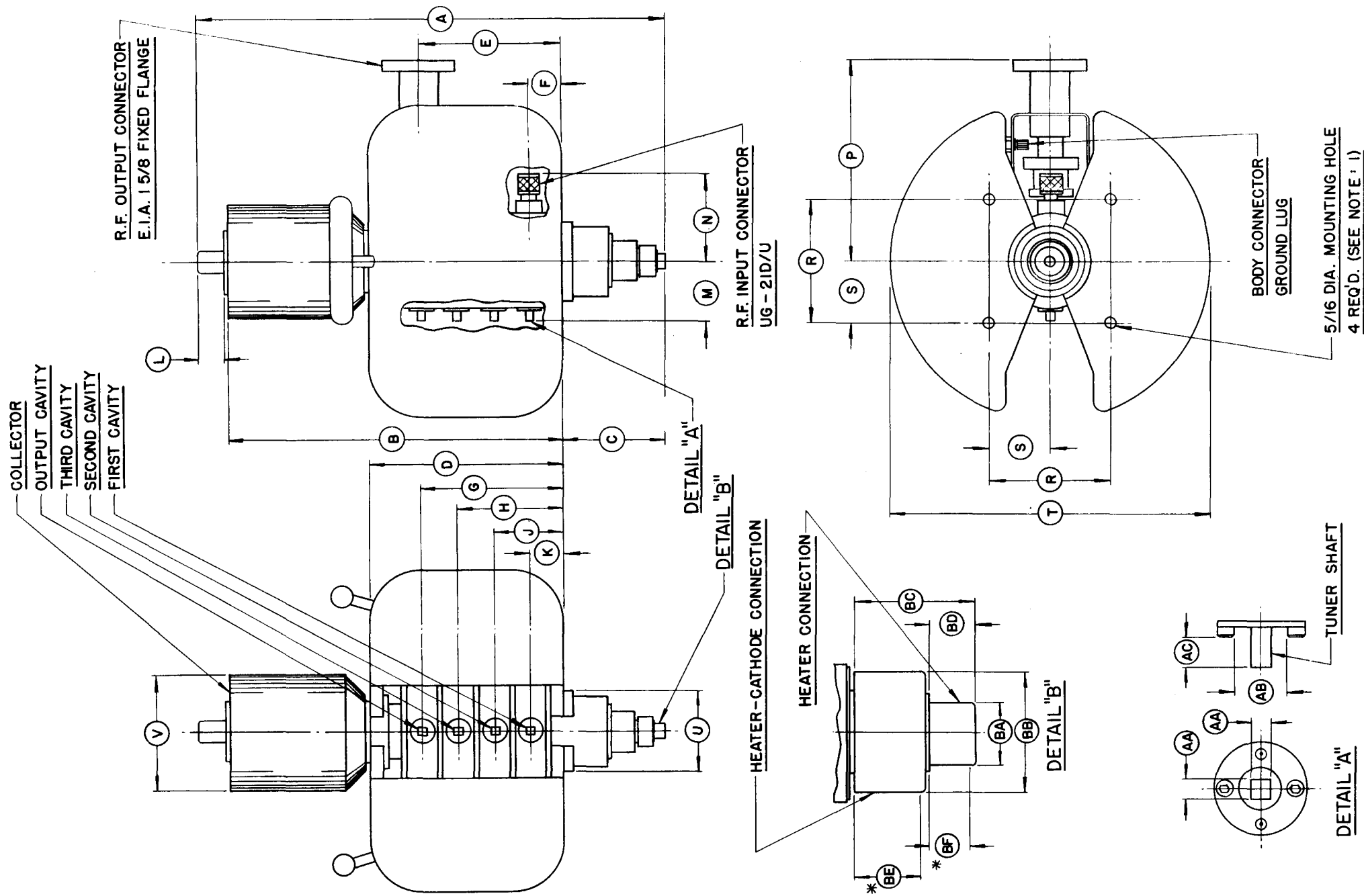
ELECTRICAL

Frequency	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1700-2400	MHz
Minimum Output Power	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	kW
Minimum Power Gain	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	db
Cathode: Impregnated Unipotential																	
Starting Time	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	minutes
Heater: Voltage	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	volts
Current	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5	amperes
Maximum Starting Current	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	amperes



4K3SJ

DIMENSIONAL DATA			
REF.	NOM.	MIN.	MAX.
A			19.000
B	13.475		
C	4.544		
D			7.874
E	5.820		
F	1.470		
G	5.820		
H	4.370		
J	2.920		
K	1.470		
L			.750
M	2.472		
N	3.475		
P	7.910		
R		4.888	5.012
S		2.444	2.506
T			13.196
U			3.042
V	4.383		
AA		.248	.252
AB		.647	
AC		.340	
BA		.740	.760
BB		1.485	1.505
BC		1.450	1.490
BD		.530	
BE		.830	
BF		.450	



NOTES:

1. KEEP MAGNETIC MATERIALS AT LEAST SIX INCHES AWAY FROM MAGNET; OTHER MAGNETS SHOULD BE AT LEAST TWELVE INCHES DISTANT.
2. DIMENSIONS ARE IN INCHES.
3. (*) MINIMUM CONTACT.

4K3SJ KLYSTRON

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Frequency	-	-	-	-	-	-	-	-	-	1700	2000	2400	megahertz
Output Power	-	-	-	-	-	-	-	-	-	1.17	1.08	1.03	kilowatts
Driving Power	-	-	-	-	-	-	-	-	-	20	25	30	milliwatts
Gain	-	-	-	-	-	-	-	-	-	47.6	46.3	45.3	decibels
DC Beam Voltage	-	-	-	-	-	-	-	-	-	6	6	6.2	kilovolts
DC Beam Current	-	-	-	-	-	-	-	-	-	0.54	0.54	0.56	ampere
Beam Power Efficiency	-	-	-	-	-	-	-	-	-	36.2	33.4	31.8	percent
3 db Bandwidth	-	-	-	-	-	-	-	-	-	4	4.5	6	megahertz

For additional data or information regarding a specific application, write to EIMAC, Division of Varian, 301 Industrial Way, San Carlos, California.