

TYPICAL OPERATING CONDITIONS			POWER SUPPLY REQUIREMENTS		
ELEMENT	VOLTAGE	CURRENT	VOLTAGE MIN	VOLTAGE MAX	CURRENT MAX
HEATER	-6.3 Vdc	0.7 A	-5.8 Vdc	-6.4 Vdc	1.5 A
HELIX	W/ RF	GROUND	GROUND	GROUND	4 mA
	W/O RF				
FE ON	-6.3 Vdc	0.1 mA	0	-40 Vdc	1 mA
FE OFF	-1200 Vdc	0.1 mA	-1200 Vdc	-1500 Vdc	0.2 mA
CATHODE (Ek)	-13.5 kV	100 mA	-12.8 kV	-13.8 kV	110 mA
COLLECTOR W/ RF	#1 6.75 kV	10 mA	50% x Ek ±2%		50 mA
	#2 3.38 kV	80 mA	25% x Ek ±2%		110 mA

RF PERFORMANCE			
FREQ GHz	TYP SAT POWER OUTPUT (WATTS)	MIN OPERATING POWER OUTPUT (WATTS)	TYP GAIN AT SAT POWER dB
26.5	40	40	45
27.0	40	40	46
28.0	40	40	47
29.0	50	40	48
30.0	50	40	50
31.0	50	40	50
32.0	50	40	50
33.0	60	40	50
34.0	70	40	50
35.0	65	40	50
36.0	60	40	50
37.0	55	40	42
38.0	45	40	38
39.0	40	40	36
40.0	40	40	35

NOTE 1: CATHODE VOLTAGE IS MEASURED WITH RESPECT TO GROUND.

NOTE 2: HEATER, COLLECTOR AND FOCUS ELECTRODE (FE) VOLTAGES ARE MEASURED WITH RESPECT TO CATHODE.

NOTE 3: CAN BE MADE AVAILABLE WITH INTEGRATED SSM.

SELECTED PERFORMANCE	TYPICAL	SPECIFIED
INPUT VSWR	2.0:1	2.5:1
OUTPUT VSWR	2.0:1	2.0:1
MAXIMUM DUTY	—	CW
FE CAPACITANCE	50 pF	60 pF
MIN HARMONIC SEPARATION	-8 dBc	-6 dBc *
NOISE POWER DENSITY	-25 dBm/MHz	-20 dBm/MHz
PRIME POWER	400 W	500 W
TEMPERATURE RANGE	-40° to 85°C	—

An ISO 9001:2000 Quality System
Certified Company

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