

TYPICAL OPERATING CONDITIONS			POWER SUPPLY REQUIREMENTS		
ELEMENT	VOLTAGE	CURRENT	VOLTAGE MIN	VOLTAGE MAX	CURRENT MAX
HEATER	-6.3 V	-1.9 A	-6 V	-6.6 V	2.5 A
HELIX	W/RF	GROUND	GROUND	GROUND	45 mA
	W/O RF				
GRID ON	114 Vdc	0.25 mA	75 Vdc	130 Vdc	10 mA
GRID OFF	-200 Vdc	0.01 mA	-200 Vdc	-500 Vdc	0.1 mA
CATHODE (Ek)	-5 kV	320 mA	-4.75 kV	-5.2 kV	400 mA
COLLECTOR W/ RF	#1	3.25 kV	138 mA	65% X Ek ±2%	200 mA
	#2	2.05 kV	145 mA	41% X Ek ±2%	400 mA

NOTE 1: CATHODE VOLTAGE IS MEASURED WITH RESPECT TO GROUND.  
 NOTE 2: HEATER, COLLECTOR AND GRID VOLTAGES ARE MEASURED WITH RESPECT TO CATHODE.

RF PERFORMANCE			
FREQ GHz	TYP SAT POWER OUTPUT (WATTS)	MIN SPEC POWER OUTPUT (WATTS)	TYP GAIN AT SPEC POWER dB
2.5	230	220 *	42
3.0	280	275	55
4.0	280	275	62
5.0	280	275	64
6.0	280	275	55
7.0	250	234	48
8.0	225	215	40

TYPICAL POWER OUTPUT IS SHOWN TO ILLUSTRATE CAPABILITY.

GAIN IS W/O EQUALIZER.

SELECTED PERFORMANCE	TYPICAL	SPECIFIED
INPUT VSWR	2:1	2.5:1
OUTPUT VSWR	2:1	2.5:1
MAXIMUM DUTY	—	CW
GRID CAPACITANCE	47 pF	50 pF
MIN HARMONIC SEPARATION	-2.5 dBc	-2 dBc *
NOISE POWER DENSITY	-12 dBm/MHz	-9 dBm/MHz
PRIME POWER	943 W	1085 W
TEMPERATURE RANGE	-40° to 85°C	—