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MODEL NO. MEC 3095

1.9 TO 2.7 GHz

TYPICAL OPERATING CONDITIONS			POWER SUPPLY REQUIREMENTS		
ELEMENT	VOLTAGE	CURRENT	VOLTAGE MIN	VOLTAGE MAX	CURRENT MAX
HEATER	-6.5 Vdc	4.2 A	-6.4 Vdc	-6.8 Vdc	5 A
HELIX	W/ RF	GROUND	GROUND		800 mApk
	W/O RF	50 mApk			
GRID ON	155 Vpk	5.0 mApk	125 Vpk	350 Vpk	25 mApk
GRID OFF	-400 Vdc	50 $\mu$ A	-350 Vdc	-500 Vdc	1 mA
CATHODE (Ek)	-12.3 kV	2.15 Apk	-12.0 kV	-13.0 kV	2.7 Apk
COLLECTOR W/ RF	#1	9.23 kV	420 mApk	75% x Ek $\pm$ 2%	
	#2	6.15 kV	1.16 Apk	50% x Ek $\pm$ 2%	

RF PERFORMANCE			
FREQ GHz	TYP SAT POWER OUTPUT (WATTS)	MIN SPEC POWER OUTPUT (WATTS)	TYP GAIN AT SPEC POWER dB
1.9	6200	6000	30
2.0	6300	6000	30
2.1	6400	6000	30
2.2	6600	6000	30
2.3	6600	6000	30
2.4	6400	6000	30
2.5	6300	6000	30
2.6	6200	6000	30
2.7	6200	6000	30

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

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

SELECTED PERFORMANCE	TYPICAL	SPECIFIED
INPUT VSWR	1.9:1	2.0:1
OUTPUT VSWR	1.5:1	2.0:1
MAXIMUM DUTY	—	10%
MAXIMUM PULSEWIDTH	—	150 $\mu$ sec
GRID CAPACITANCE	45 pF	60 pF
MIN HARMONIC SEPARATION	-10 dBc	-5 dBc
NOISE POWER DENSITY	-40 dBm/MHz	-20 dBm/MHz
PRIME POWER	1900 W	2100 W
TEMPERATURE RANGE	-40° to 85°C	—

TYPICAL POWER OUTPUT IS SHOWN TO ILLUSTRATE CAPABILITY.

GAIN IS WITHOUT EQUALIZER.

*An ISO 9001:2000 Quality System  
 Certified Company*

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