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MODEL NO. MEC 5096

5.0 to 11.0 GHz

TYPICAL OPERATING CONDITIONS			POWER SUPPLY REQUIREMENTS		
ELEMENT	VOLTAGE	CURRENT	VOLTAGE MIN	VOLTAGE MAX	CURRENT MAX
HEATER	-6.3 Vdc	2.0 A	-5.985 Vdc	-6.615 Vdc	2.8 A
HELIX	W/RF	17 mA	GROUND		50 mA
	W/O RF	4.0 mA			
GRID ON	174 Vdc	0.01 mA	100 Vpk	250 Vpk	10 mA
GRID OFF	-200 Vdc	0.01 mA	-200 Vdc	-200 Vdc	1.0 mA
CATHODE (Ek)	-7.6 kV	390 mA	-7.5 kV	-8 kV	400 mA
COLLECTOR #1	W/RF	275 mA	64% X Ek ± 2%		300 mA
	W/O RF	42 mA			
COLLECTOR #2	W/RF	98 mA	34% X Ek ± 2%		370 mA
	W/O RF	344 mA			

RF PERFORMANCE			
FREQ GHz	TYP SAT POWER OUTPUT (WATTS)	MIN SPEC POWER OUTPUT (WATTS)	TYP GAIN AT SPEC POWER dB
5.0	610	400	32
6.0	660	400	33
7.0	575	400	32
8.0	525	400	32
9.0	575	400	32
10.0	525	400	32
11.0	480	400	31

TYPICAL POWER OUTPUT IS SHOWN TO ILLUSTRATE CAPABILITY.

GAIN IS WITH EQUALIZER.

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	1.97:1	2.0:1
OUTPUT VSWR	1.99:1	2.0:1
MAXIMUM DUTY	—	CW
GRID CAPACITANCE	42 pF	50 pF MAX
MIN HARMONIC SEPARATION	-9 dBc	-3 dBc MAX
NOISE POWER DENSITY	-20 dBm/MHz	-18 dBm/MHz
PRIME POWER	1730 W	1900 W
TEMPERATURE RANGE	-40° to 85°C	—

An ISO 9001:2000 Quality System
 Certified Company

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