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MODEL NO. MEC 5196 (GR)

2.0 to 8.0 GHz

TYPICAL OPERATING CONDITIONS			POWER SUPPLY REQUIREMENTS		
ELEMENT	VOLTAGE	CURRENT	VOLTAGE MIN	VOLTAGE MAX	CURRENT MAX
HEATER	-6.3 Vdc	2.1 A	-6 Vdc	-6.6 Vdc	2.5 A
HELIX	W/ RF	30 mA	GROUND		50 mA
	W/O RF	5 mA			
GRID ON	165 Vdc	0.2 mA	100 Vdc	250 Vdc	5 mA
GRID OFF	-200 Vdc	0.05 mA	-200 Vdc	-500 Vdc	0.5 mA
CATHODE (Ek)	-6.2 kV	495 mA	-5.8 kV	-6.5 kV	550 mA
COLLECTOR W/ RF	#1	3.95 kV	64% X Ek ± 2%		450 mA
	#2	2.1 kV	34% X Ek ± 2%		550 mA

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	2:1	2.5:1
OUTPUT VSWR	1.75:1	2.5:1
MAXIMUM DUTY	—	CW
GRID CAPACITANCE	32 pF	50 pF
MIN HARMONIC SEPARATION	-3.5 dBc	-3 dBc *
NOISE POWER DENSITY	-35 dBm/MHz	-25 dBm/MHz
PRIME POWER	1825 W	1850 W
TEMPERATURE RANGE	-40° to 85°C	—

RF PERFORMANCE			
FREQ GHz	TYP SAT POWER OUTPUT (WATTS)	MIN SPEC POWER OUTPUT (WATTS)	TYP GAIN AT SPEC POWER dB
2.0	175	150	26
2.5	500	450 *	32
3.0	650	450	40
3.5	700	450	44
4.0	700	450	46
4.5	725	450	46
5.0	675	450	46
5.5	630	450	45
6.0	600	450	45
6.5	550	450	43
7.0	525	450	39
7.5	500	450	34
8.0	475	450	28

TYPICAL POWER OUTPUT IS SHOWN TO ILLUSTRATE CAPABILITY.

GAIN IS W/O EQUALIZER.

An ISO 9001:2000 Quality System
 Certified Company

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