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This model number is subject to the jurisdiction of the U.S. Department of Commerce.

MODEL NO. MEC 3094A

5.35 to 5.65 GHz

TYPICAL OPERATING CONDITIONS			POWER SUPPLY REQUIREMENTS		
ELEMENT	VOLTAGE	CURRENT	VOLTAGE MIN	VOLTAGE MAX	CURRENT MAX
HEATER	-6.3 Vdc	2.25 Apk	-6.0 Vdc	-6.6 Vdc	3.0 A
HELIX	W/RF	GROUND	300 mApk	GROUND	500 mApk
	W/O RF				
GRID ON	180 Vpk	1.8 mApk	100 Vpk	250 Vpk	30 mApk
GRID OFF	-300 Vdc	0 mA	-300 Vdc	-300 Vdc	1 mApk
CATHODE (Ek)	-14.0 kV	2.3 Apk	-13.5 kV	-14.5 kV	2.8 Apk
COLLECTOR	W/RF	10.3 kV	2.0 Apk	73.5% X Ek ±2%	2.8 Apk
	W/O RF				

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
5.35	8510	8000	46
5.40	8130	8000	46
5.45	7800	8000	46
5.50	8200	8000	46
5.55	8300	8000	46
5.60	8200	8000	46
5.65	5600	5000	46

TYPICAL POWER OUTPUT IS SHOWN TO ILLUSTRATE CAPABILITY.

GAIN IS W/O EQUALIZER.

SELECTED PERFORMANCE	TYPICAL	SPECIFIED
INPUT VSWR	1.3:1	2:1
OUTPUT VSWR	1.5:1	2:1
MAXIMUM DUTY	—	4%
MAXIMUM PULSEWIDTH	—	100 μsec
GRID CAPACITANCE	40 pF	60 pF
NOISE POWER DENSITY	-35 dBm/MHz	-10 dBm/MHz
PRIME POWER	1000 W	1100 W

An ISO 9001:2000 Quality System
 Certified Company

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