



11361 Sunrise Park Drive, Rancho Cordova, Calif. 95742-6587
 Telephone (916) 638-3344 Fax (916) 636-7453

This model number is controlled by the International Traffic in Arms Regulations, and can only be exported via a U.S. Department of State export license. They may not be transferred, transshipped on a non-continuous voyage, or otherwise be disposed of in any other country, either in their original form or after being incorporated into other end-items, without the prior written approval of the U.S. Department of State.

MODEL NO. MEC 3086

15.53 TO 17.87 GHz

TYPICAL OPERATING CONDITIONS			POWER SUPPLY REQUIREMENTS		
ELEMENT	VOLTAGE	CURRENT	VOLTAGE MIN	VOLTAGE MAX	CURRENT MAX
HEATER	-6.2 Vdc	1.66 A	-5.8 Vdc	-6.6 Vdc	2.5 A
HELIX	GROUND	* 5.2 mApk	GROUND		20 mApk
		** 3.1 mApk			
GRID DRIVE	195 Vpk	0 mApk	150 Vpk	275 Vpk	20 mApk
GRID BIAS OFF	-300 Vdc	0 mA	-300 Vdc	-300 Vdc	1.0 mA
CATHODE (Ek)	-12.2 kV	416 mApk	-12 kV	-13 kV	480 mApk
COLLECTOR #1	7.2 kV	* 38.0 mApk	59% X Ek ± 2%		200 mApk
		** 5.0 mApk			
COLLECTOR #2	5.0 kV	* 373 mApk	41% X Ek ± 2%		480 mApk
		** 408 mApk			

* WITH RF DRIVE

** WITHOUT RF DRIVE

SELECTED PERFORMANCE	TYPICAL	SPECIFIED
INPUT VSWR	1.65:1	2.0:1
OUTPUT VSWR	1.33:1	1.5:1
DUTY CYCLE	35%	35%
NOISE POWER DENSITY (OFF)	> -105 dBm/MHz	-105 dBm/MHz
SPECTRAL PURITY	> -50 dBc	-50 dBc
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
15.53	710	700	45
16.15	725	700	47
16.70	725	700	48
17.15	725	700	47
17.87	710	700	47

GAIN IS WITHOUT EQUALIZER.

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

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

An ISO 9001:2000 Quality System
 Certified Company

01/04