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

MODEL NO. MEC 5296

2.5 to 7.5 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	-6.5 Vdc	2.5 A
HELIX	W/RF	GROUND	35 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)		-6.15 kV	500 mA	-5.8 kV	-6.5 kV	550 mA
COLLECTOR W/ RF	#1	4.31 kV	300 mA	70% X Ek ±2%		450 mA
	#2	2.89 kV	165 mA	47% 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	-5 dBc	-3 dBc *
NOISE POWER DENSITY	-40 dBm/MHz	-25 dBm/MHz
PRIME POWER	1995 W	2500 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
2.5	600	535 *	32
3.0	775	535	38
3.5	825	535	40
4.0	775	535	42
4.5	750	535	43
5.0	750	535	43
5.5	700	535	42
6.0	675	535	40
6.5	675	535	38
7.0	635	535	34
7.5	550	535	31

TYPICAL POWER OUTPUT IS SHOWN TO ILLUSTRATE CAPABILITY.

GAIN IS W/O EQUALIZER.

An ISO 9001:2000 Quality System Certified Company

01/06