



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

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MODEL NO. MTG 5333 (GR)

MTG 5336 (FE)

TRI-BAND

TYPICAL OPERATING CONDITIONS			POWER SUPPLY REQUIREMENTS		
ELEMENT	VOLTAGE	CURRENT	VOLTAGE MIN	VOLTAGE MAX	CURRENT MAX
HEATER	-5.8 Vdc	1.62 A	-5.8 Vdc	-6.6 Vdc	2 A
HELIX	W/ RF	GROUND	GROUND		10 mA
	W/O RF				
		0.6 mA			
FE ON	-6 Vdc	0.1 mA	0	-10 Vdc	1 mA
FE OFF	-1300 Vdc	0.1 mA	-1300 Vdc	-1500 Vdc	1 mA
GRID ON	200 Vdc	1 mA	125 Vdc	250 Vdc	5 mA
GRID OFF	-250 Vdc	0.1 mA	-250 Vdc	-500 Vdc	1 mA
CATHODE (Ek)	-10.65 kV	300 mA	-10 kV	-10.8 kV	300 mA
COLLECTOR W/ RF	#1	5.96 kV	80 mA	56% x Ek ±2%	
	#2	4.26 kV	202 mA	40% x Ek ±2%	

RF PERFORMANCE			
FREQ GHz	TYP SAT POWER OUTPUT (WATTS)	MIN SPEC POWER OUTPUT (WATTS)	TYP GAIN AT SPEC POWER dB
5.850	375	325 *	37
6.000	375	325	37
6.425	375	325	37
X			
7.900	450	400 **	46
8.200	450	400	46
8.400	450	400	46
X			
14.000	375	325***	48
14.250	375	325	48
14.500	375	325	48

NOTE 1: CATHODE VOLTAGE IS MEASURED WITH RESPECT TO GROUND.
 NOTE 2: HEATER, COLLECTOR, GRID OR FOCUS ELECTRODE (FE) VOLTAGES ARE MEASURED WITH RESPECT TO CATHODE.

SELECTED PERFORMANCE	TYPICAL	SPECIFIED
INPUT VSWR	2.3:1	2.5:1
OUTPUT VSWR	1.8:1	2:1
MAXIMUM DUTY	—	CW
FE CAPACITANCE	50 pF	65 pF
GRID CAPACITANCE	37 pF	50 pF
MIN HARMONIC SEPARATION	-5/-8/-20 dBc	-3*/-5**/-15*** dBc
NOISE POWER DENSITY	-12 dBm/MHz	-10 dBm/MHz
PRIME POWER	1412 W	1450 W
TEMPERATURE RANGE	-40° to 85°C	—

TYPICAL POWER OUTPUT IS SHOWN TO ILLUSTRATE CAPABILITY.

GAIN IS WITH EQUALIZER.

SPECTRAL REGROWTH: USING A TELEDYNE APPROVED LINEARIZER

FREQUENCY	MINIMUM LINEAR POWER	MODULATION	LEVEL@1 SYMBOL RATE.
7.9 GHz	250W	OQPSK	-30dBc
8.4 GHz	250W	OQPSK	-30dBc

An ISO 9001:2000 Quality System
 Certified Company

01/04