



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

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MODEL NO. MTG 3041K

2.5 to 8.0 GHz

TYPICAL OPERATING CONDITIONS			POWER SUPPLY REQUIREMENTS		
ELEMENT	VOLTAGE	CURRENT	VOLTAGE MIN	VOLTAGE MAX	CURRENT MAX
HEATER	-6.3 Vdc	2.2 A	-6.1 Vdc	-6.5 Vdc	3.0 A
HEX	W/RF	GROUND	GROUND		600 mApk
	W/O RF				
GRID ON	217 Vpk	1.8 mApk	100 Vpk	250 Vpk	50 mApk
GRID OFF	-250 Vdc	0.01 mA	-250 Vdc	-500 Vdc	0.5 mA
CATHODE (Ek)	-8.6 kV	1.4 Apk	-8.2 kV	-8.8 kV	2.0 Apk
COLLECTOR W/ RF	6.45 kV	1.0 Apk	75% X Ek ±2%		2.0 Apk

RF PERFORMANCE			
FREQ GHz	TYP SAT POWER OUTPUT (WATTS)	MIN SPEC POWER OUTPUT (WATTS)	TYP GAIN AT SPEC POWER dB
2.5	2000	1900 *	50
2.7	2040	2000	52
3.0	2150	2000	54
4.0	2450	2000	60
5.0	2450	2000	68
6.0	2450	2000	59
7.0	2450	2000	51
8.0	2400	2000	43

NOTE 1: CATHODE VOLTAGE IS MEASURED WITH RESPECT TO GROUND.
 NOTE 2: HEATER, COLLECTOR AND GRID VOLTAGES ARE MEASURED WITH RESPECT TO CATHODE.

TYPICAL POWER OUTPUT IS SHOWN TO ILLUSTRATE CAPABILITY.

GAIN IS WITHOUT EQUALIZER.

SELECTED PERFORMANCE	TYPICAL	SPECIFIED
INPUT VSWR	2:1	2.5:1
OUTPUT VSWR	1.8:1	2.5:1
MAXIMUM DUTY	—	6%
MAXIMUM PULSEWIDTH	—	100 μsec
GRID CAPACITANCE	47 pF	50 pF
MIN HARMONIC SEPARATION	-1.7 dBc	-1.5 dBc *
NOISE POWER DENSITY	-12 dBm/MHz	-10 dBm/MHz
PRIME POWER	650 W	750 W
TEMPERATURE RANGE	-40° to 85 °C	—

An ISO 9001:2000 Quality System
 Certified Company

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