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MODEL NO. MTG 5336AX (FE)

DUAL-BAND

TYPICAL OPERATING CONDITIONS			POWER SUPPLY REQUIREMENTS		
ELEMENT	VOLTAGE	CURRENT	VOLTAGE MIN	VOLTAGE MAX	CURRENT MAX
HEATER	-6 Vdc	1.3 A	-5.8 Vdc	-6.6 Vdc	2 A
HELIX	W/ RF	GROUND	GROUND		10 mA
	W/O RF	GROUND	GROUND		
FE ON	-6 Vdc	0.1 mA	0	-10 Vdc	1 mA
FE OFF	-1600 Vdc	0.1 mA	-1600 Vdc	-1800 Vdc	1 mA
CATHODE (Ek)	-10.8 kV	300 mA	-9.6 kV	-11.4 kV	340 mA
COLLECTOR W/ RF	#1	6.05 kV	70 mA	56% x Ek ±2%	125 mA
	#2	4.32 kV	224 mA	40% x Ek ±2%	330 mA

RF PERFORMANCE			
FREQ GHz	TYP SAT POWER OUTPUT (WATTS)	MIN SPEC POWER OUTPUT (WATTS)	TYP GAIN AT SPEC POWER dB
5.850	425	400 *	38
6.250	425	400	38
6.650	425	400	38
X			
13.750	420	400 **	52
14.250	420	400	52
14.500	420	400	52

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

TYPICAL POWER OUTPUT IS SHOWN TO ILLUSTRATE CAPABILITY.

GAIN IS WITH EQUALIZER.

SELECTED PERFORMANCE	TYPICAL	SPECIFIED
INPUT VSWR	2.0:1	2.25:1
OUTPUT VSWR	2.2:1	2.3:1
MAXIMUM DUTY	—	CW
FE CAPACITANCE	50 pF	65 pF
MIN HARMONIC SEPARATION	-5/-20 dBc	-3*/-15** dBc
NOISE POWER DENSITY	-14 dBm/MHz	-12 dBm/MHz
PRIME POWER	1465 W	1550 W
TEMPERATURE RANGE	-40° to 85°C	—

An ISO 9001:2000 Quality System
 Certified Company

01/06