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MODEL NO. MTI 3444L

6.5 to 18.0 GHz

TYPICAL OPERATING CONDITIONS			POWER SUPPLY REQUIREMENTS		
ELEMENT	VOLTAGE	CURRENT	VOLTAGE MIN	VOLTAGE MAX	CURRENT MAX
HEATER	-6.3 Vdc	1.9 A	-6.1 Vdc	-6.5 Vdc	2.5 A
HELIX	W/RF	GROUND	GROUND		500 mApk
	W/O RF				
		110 mApk			
GRID ON	160 Vpk	4 mApk	100 Vpk	250 Vpk	20 mApk
GRID OFF	-200 Vdc	0.1 mA	-200 Vdc	-500 Vdc	0.5 mA
CATHODE (Ek)	-11.2 kV	1.65 Apk	-10.5 kV	-11.5 kV	1.9 Apk
COLLECTOR W/ RF	7 kV	1.2 Apk	63% X Ek ±2%		1.9 Apk

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	2.2:1	2.5:1
OUTPUT VSWR	2.3:1	2.5:1
MAXIMUM DUTY	—	6%
MAXIMUM PULSEWIDTH	—	100 μsec
GRID CAPACITANCE	38 pF	50 pF
MIN HARMONIC SEPARATION	-3 dBc	-2 dBc *
NOISE POWER DENSITY	2 dBm/MHz	3 dBm/MHz
PRIME POWER	818 W	950 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
6.5	1320	1260 *	43
7.0	1580	1510	44
8.0	2140	1580	45
9.0	2340	1580	46
10.0	1660	1580	46
11.0	2140	1580	46
12.0	2450	1580	46
13.0	2510	1580	46
14.0	2450	1580	46
15.0	2400	1580	46
16.0	2240	1580	46
17.0	2000	1580	46
18.0	1700	1580	45

TYPICAL POWER OUTPUT IS SHOWN TO ILLUSTRATE CAPABILITY.

GAIN IS WITH EQUALIZER.

An ISO 9001:2000 Quality System
 Certified Company

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