MTI 3044C Pulse TWT 8.0 GHz – 12.4 GHz

- 4% Maximum Duty
- 1.2 kW Minimum Power
- 8.0 to 12.4 GHz
- -40° to 85° C

- 583 W Typ. Prime Power @4%
- 57 62 dB Typical Gain
- 14.35" L x 3" W x 1.7" H (36.45 x 7.77 x 4.3 cm)



RF Performance

Freq (GHz)	Typ. Sat. Power Output (W)	Min. Spec. Power Output (W)	Typ. Gain @ Spec. Power (dB)
8.0	1500	1200	57
9.0	1600	1200	60
10.0	2000	1200	63
11.0	2000	1200	64
12.0	2300	1200	64
12.4	2300	1200	64

Typical power output is shown to illustrate capability. Typical gain shown is without equalizer.

Typical Operating Conditions			Power Supply Requirements			Performance	Typical	Spe
Element	Voltage	Current	Voltage Min.	Voltage Max.	Current Max.	Input VSWR		
Heater	-6.3 Vdc	1.9 A	-6.0 Vdc	-6.6 Vdc	2.2 A	Output VSWR		
Helix	-0.0 Vuc	1.5 A	-0.0 Vuc	-0.0 Vuc	2.2 1	Max. Duty Max. Pulsewidth		
with RF	Ground	310 mApk	Ground	Ground	600 mApk @ 4%	Grid Capacitance		
without RF	Ground	75 mApk	Ground	Ground	600 mApk @ 4%	Min. Harmonic Separation		
Grid On	134 Vpk	1 mApk	100 Vpk	220 Vpk	20 mApk	Noise Power Density		
Grid Off	-150 Vdc	0.2 mA	-150 Vdc	-200 Vdc	1 mA	(dBm/MHz)	12	
Cathode (Ek)	-11.4 kV	1.58 Apk	-10.5 kV	-11.5 kV	1.8 Apk	Prime Power		
Collector w/RF	8.2 kV	1.27 Apk	72% x E	k ±2%	1.8 Apk			

Cathode voltage is measured with respect to ground.

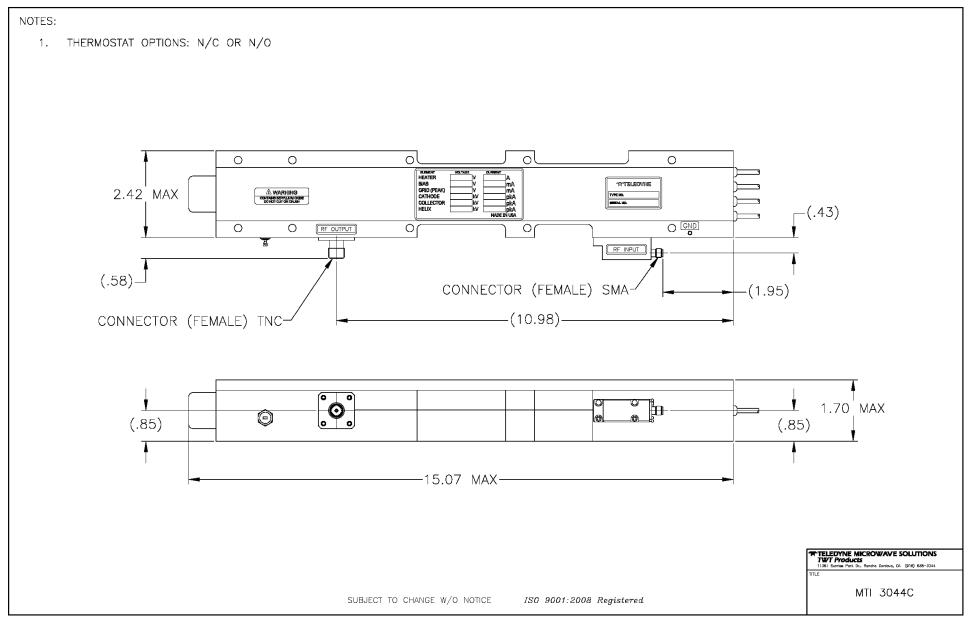
Heater, Collector, and Grid voltages are measured with respect to Cathode.

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Specifications are subject to change without notice.

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