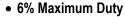
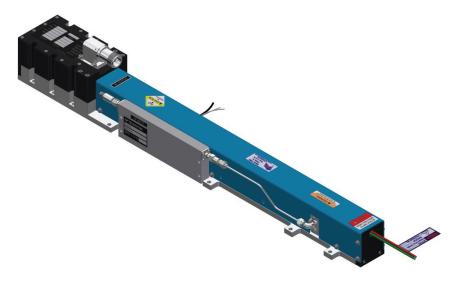
MTG 3041L2

Pulse TWT 2.0 GHz – 8.0 GHz



- 2 kW Minimum Power
- 2.0 to 8.0 GHz
- -40° to 85° C
- 725 W Typ. Prime Power @6%
- 38-58 dB Typical Gain
- 21.25" L x 2.55" W x 3.25" H (54 x 6.5 x 8.3 cm)



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
Helix					
with RF	Ground	650 mApk	Ground	Ground	700 mApk @ 6%
without RF	Ground	150 mApk	Ground	Ground	700 mApk @ 6%
Grid On	217 Vpk	1.8 mApk	100 Vpk	250 Vpk	20 mApk
Grid Off	-250 Vdc	0.01 mÅ	-250 Vdc	-500 Vdc	0.1 mÅ
Cathode (Ek)	-8.5 kV	1.65 Apk	-8.2 kV	-8.8 kV	1.8 Apk
Collector w/RF	6.38 kV	1 Apk	75% 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.

RF Performance

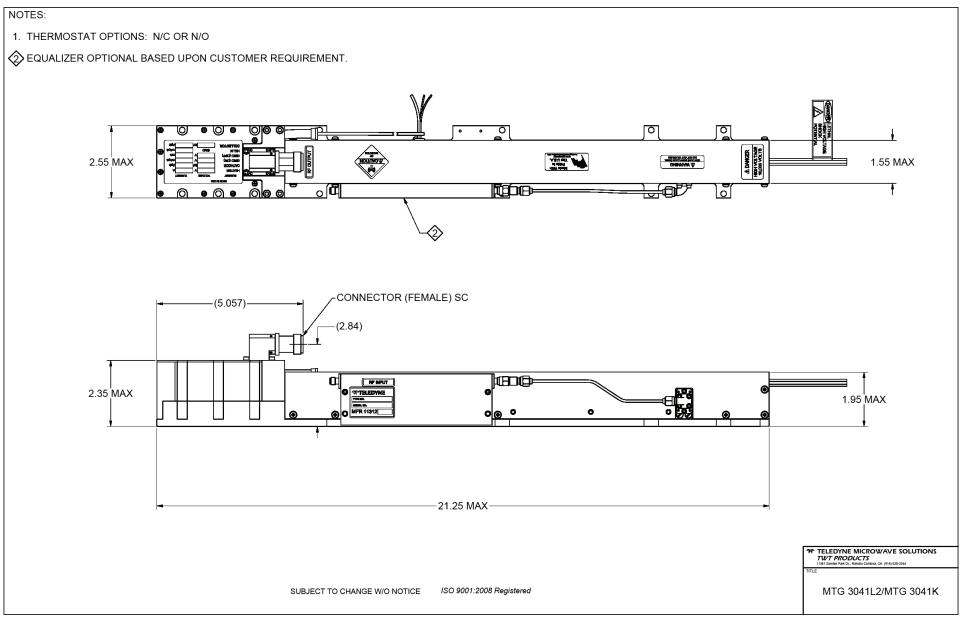
Freq (GHz)	Typ. Sat. Power Output (W)	Min. Spec. Power Output (W)	Typ. Gain @ Spec. Power (dB)
2.0	2040	2000*	38
2.2	2040	2000	38
2.3	2300	2000**	39
2.5	2400	2000	40
2.6	2500	2000***	44
3.0	2500	2000	50
4.0	2500	2000	57
5.0	2500	2000	58
6.0	2500	2000	55
7.0	2350	2000	50
7.5	2300	2000	48
8.0	2040	2000	44

Typical power output is shown to illustrate capability. Typical gain shown is with equalizer and limiter (for harmonic injection).

Performance	Typical	Spec
Input VSWR	3.5:1	3.5:1
Output VSWR	1.8:1	2.5:1
Max. Duty		6%
Max. Pulsewidth		100 µs
Grid Capacitance	47 pF	50 pF
Min. Harmonic Separation		
(dBc)	3.5/0/-2.54.5	5*/1.5**/-1***
Noise Power Density		
(dBm/MHz)	12	10
Prime Power	725 W	800 W

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