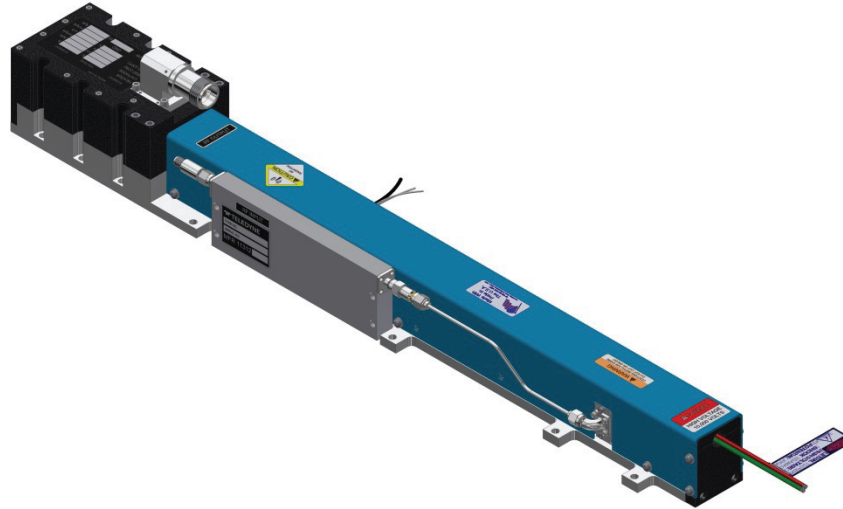


MTG 3041K

Pulse TWT

2.5 GHz – 8.0 GHz

- 6% Maximum Duty
- 1900 W Minimum Power
- 2.5 to 8.0 GHz
- -40° to 85° C
- 650 W Typ. Prime Power @6%
- 43-68 dB Typical Gain
- 21.25" L x 2.55" W x 3.25" H
(54 x 6.5 x 8.3 cm)



RF Performance

Freq (GHz)	Typ. Sat. Power Output (W)	Min. Spec. Power Output (W)	Typ. Gain @ 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

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

Typical Operating Conditions

Element	Voltage	Current	Power Supply Requirements		
			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	400 mApk	Ground	Ground	600 mApk @ 6%
without RF	Ground	150 mApk	Ground	Ground	600 mApk @ 6%
Grid On	217 Vpk	1.8 mApk	100 Vpk	250 Vpk	50 mApk
Grid Off	-250 Vdc	0.01 mA	-250 Vdc	-500 Vdc	0.1 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

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

Performance

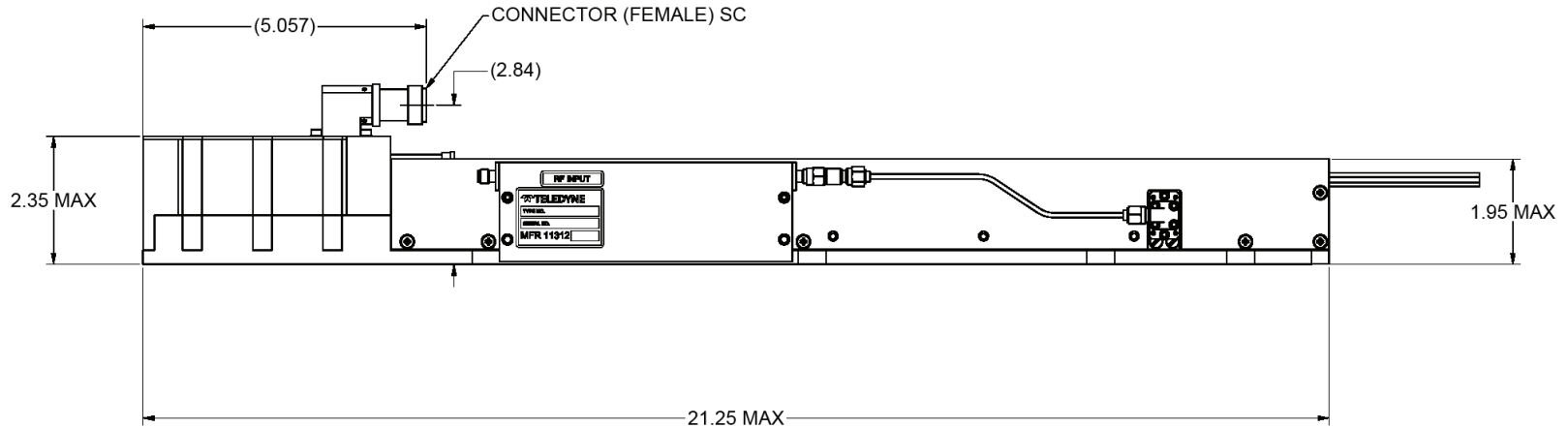
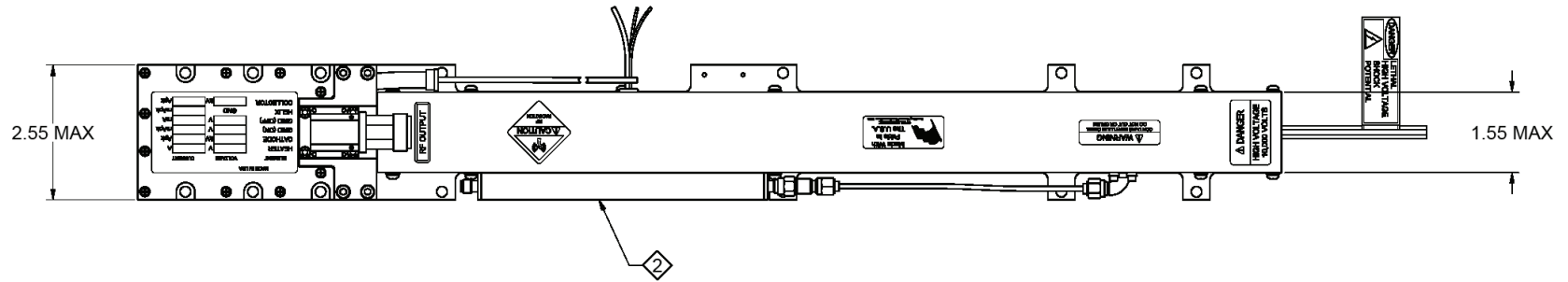
	Typical	Spec
Input VSWR.....	2:1	2.5:1
Output VSWR.....	1.8:1	2.5:1
Max. Duty	—	6%
Max. Pulsewidth	—	100 μs
Grid Capacitance.....	47 pF	50 pF
Min. Harmonic Separation.....	-1.7 dBc	-1.5 dBc
Noise Power Density (dBm/MHz)	-12	-10
Prime Power	650 W	750 W

This model number is controlled by the International Traffic in Arms Regulations, and can only be exported via a U.S. Department of State export license. They may not be transferred, transshipped on a non-continuous voyage, or otherwise be disposed of in any other country, either in their original form or after being incorporated into other end-items, without the prior written approval of the U.S. Department of State.

NOTES:

1. THERMOSTAT OPTIONS: N/C OR N/O

② EQUALIZER OPTIONAL BASED UPON CUSTOMER REQUIREMENT.



SUBJECT TO CHANGE W/O NOTICE ISO 9001:2008 Registered

TELEDYNE MICROWAVE SOLUTIONS
TWT PRODUCTS
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TITLE

MTG 3041L2/MTG 3041K

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