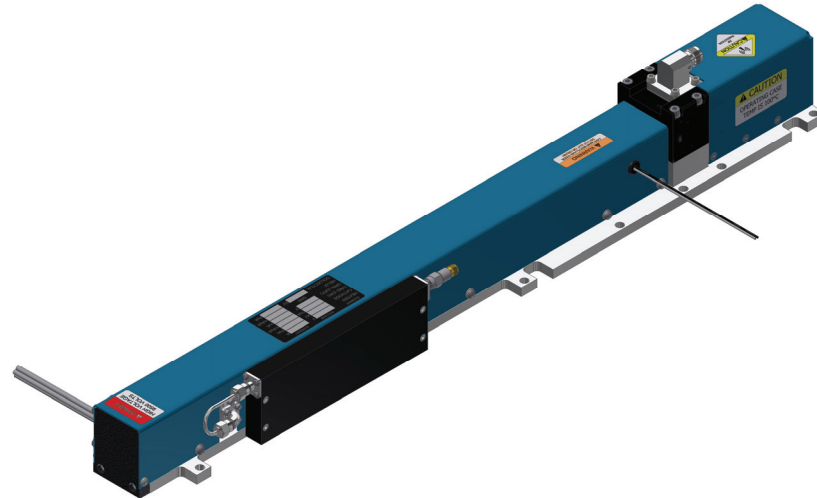


# MEC 3132

## Pulse TWT

### 2.0 GHz – 8.0 GHz

- 1kW Minimum Power
- 2.0 to 8.0 GHz
- -40° to 85° C
- 6% Maximum Duty
- 40-48 dB Typical Gain for Sat.
- 21.0" L x 2.45" W x 3.0" H  
(53.3 x 6.2 x 7.62 cm)



#### RF Performance

Freq (GHz)	Typ. Sat. Power Output (W)	Min. Spec. Power Output (W)	Typ. Gain @ Saturated Power (dB)
2.0	1100	1000	40
3.0	1500	1000	46
4.0	1700	1000	47
5.0	1900	1000	48
6.0	1800	1000	47
7.0	1800	1000	47
8.0	1800	1000	47

Typical power output is shown to illustrate capability.  
Typical gain shown is with equalizer.

Typical Operating Conditions Element	Voltage	Current	Typical Power Supply Requirements		
			Voltage Min.	Voltage Max.	Current Max.
Heater	-6.3 Vdc	1.7 A	-6.0 Vdc	-6.6 Vdc	2.5A
Helix					
with RF	Ground	400 mApk	Ground	Ground	500 mApk
without RF	Ground	150 mApk	Ground	Ground	500 mApk
Grid On	185 Vpk	1 mApk	130 Vpk	230 Vpk	20 mApk
Grid Off	-200 Vdc	0.1 mA	-200 Vdc	-300 Vdc	0.5 mA
Cathode (Ek)	-8.6kV	1.35 Apk	-8.0 kV	-9.2 kV	1.7 Apk
Collector w/RF	6.02kV	0.95 Apk		70% x Ek ±2%	1.7 Apk

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

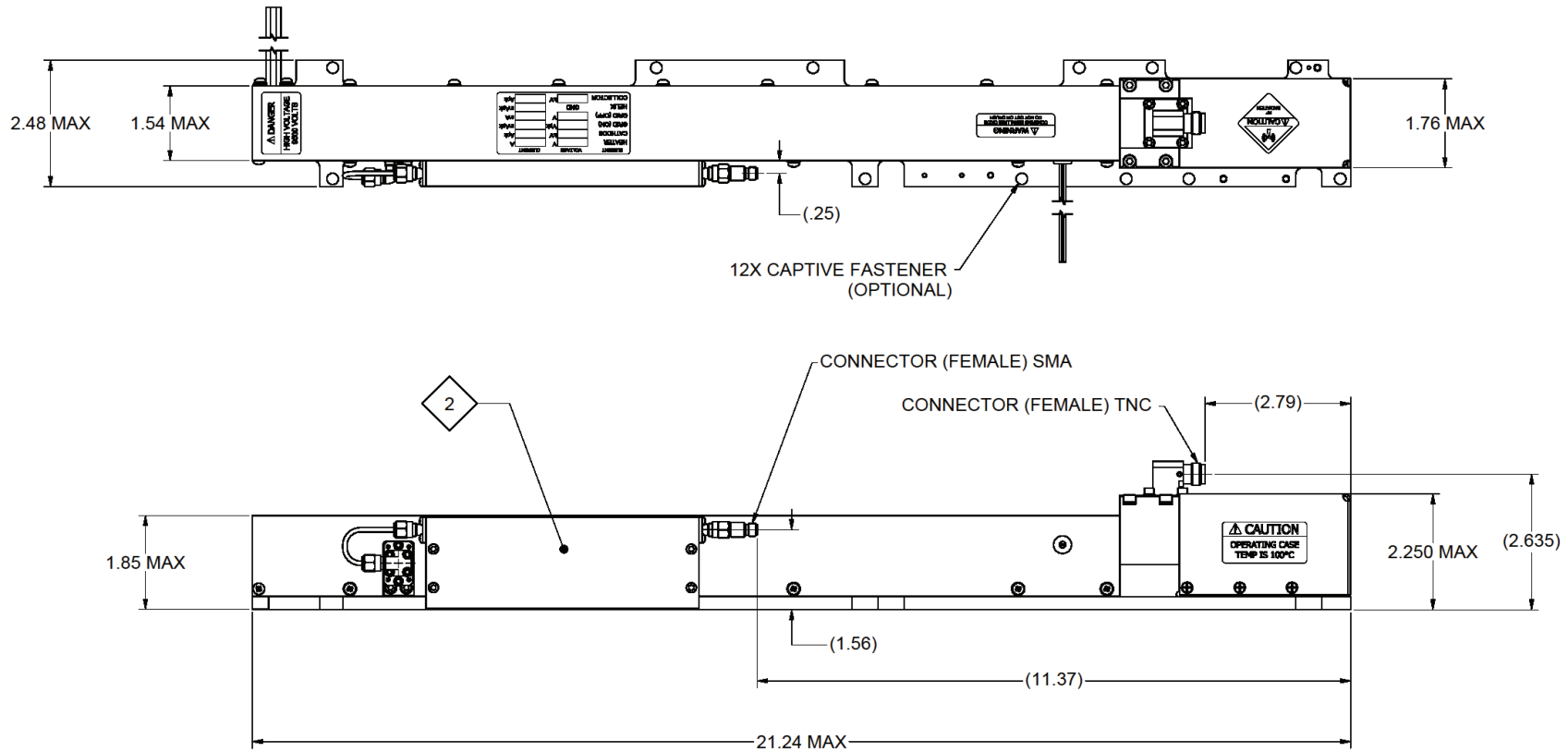
Performance	Typical	Spec
Input VSWR.....	2.0:1	3.0:1
Output VSWR.....	2.0:1	3.0:1
Max. Duty .....	—	6%
Max. Pulsewidth .....	—	100 μs
Noise Power Density (2 to 8 GHz) (dBm/MHz) .....	-10	0
Prime Power .....	612 W	750 W

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.

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NOTES:

1. THERMOSTAT OPTIONS: N/C OR N/O.
2. EQUALIZER OPTIONAL PER CUSTOMER REQUIREMENT.



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

TELEDYNE MICROWAVE SOLUTIONS  
TWT PRODUCTS  
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TITLE  
MEC 3132

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