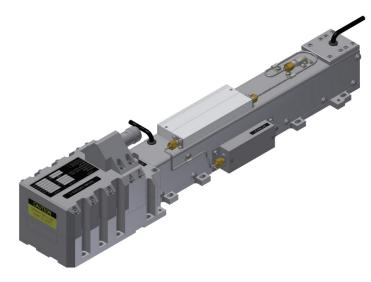
MEC 5497

Continuous Wave TWT 2.5 GHz - 7.5 GHz



- 2.5 to 7.5 GHz
- -40° to 85° C
- 1575 W Typ. Prime Power
- 30-43 dB Typical Gain
- 17.5" L x 3.25" W x 4.1" H (44.5 x 8.25 x 10.4 cm)
- Phase Match Available



Typical Operating Conditions		Power Supply Requirements			
Element	Voltage	Current	Voltage Min.	Voltage Max.	Current Max.
Heater	-6.3 Vdc	1.93 A	-6.0 Vdc	-6.6 Vdc	2.5 A
Helix					
with RF	Ground	35 mA	Ground	Ground	55 mA
without RF	Ground	5 mA	Ground	Ground	55 mA
Grid On	138 Vdc	0.2 mA	100 Vdc	250 Vdc	10 mA
Grid Off	-250 Vdc	0.05 mA	-250 Vdc	-350 Vdc	1 mA
Cathode (E _k)	-5.60 kV	430 mA	-5.4 kV	-5.7 kV	475 mA
Coll. #1	3.584 kV	360 mA (w/RF)	64% x	E _k ±2%	425 mA
		42 mA (w/o RF)			
Coll. #2	2.184 kV	35 mA (<i>w/RF</i>) 383 mA (<i>w/o RF</i>)	39% x	E _k ±2%	475 mA

Cathode voltage is measured with respect to ground.

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

RF	Perforn	nance

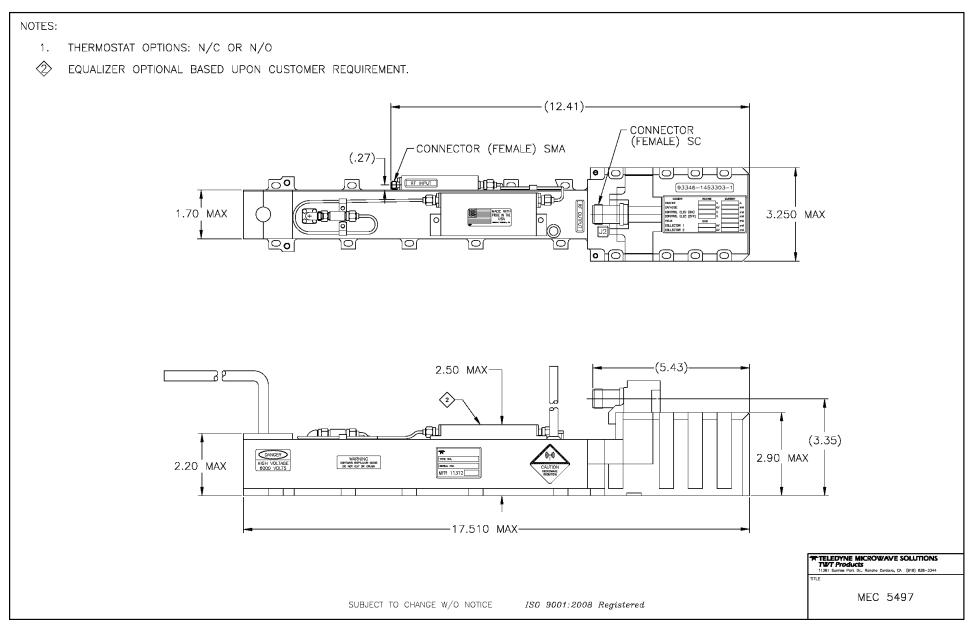
Freq (GHz)	Typ. Sat. Power Output (W)	Min. Spec. Power Output (W)	Typ. Gain @ Spec. Power (dB)
2.5	575	500	31
3.0	700	630	40
3.5	700	630	41
4.0	680	630	43
4.5	725	630	43
5.0	700	630	42
5.5	650	575	40
6.0	600	550	37
6.5	600	550	37
7.0	500	450	32
7.5	450	400	30

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

Performance	Typical	Spec
Input VSWR	2:1	2.5:1
Output VSWR		
Max. Duty	—	CW
Min. Harmonic Separation		
Noise Power Density		
(dBm/MHz)		
Prime Power	1575 W	1650 W

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