MEC 3086

Pulse TWT 15.50 GHz – 17.90 GHz



- 700 W Minimum Power
- 15.50 to 17.90 GHz
- -40° to 85° C
- 45-48 dB Typical Gain
- 19.8" L x 3.9" W x 3.4" H (50.3 x 9.9 x 8.6 cm)
- ±20° Phase Match



Typical Operating Conditions			Power Supply Requirements		
Element	Voltage	Current	Voltage Min.	Voltage Max.	Current Max.
Heater	-6.3 Vdc	1.70 A	-5.8 Vdc	-6.6 Vdc	2.5 A
Helix					
with RF	Ground	7.0 mApk	Ground	Ground	20 mApk
without RF	Ground	3.3 mApk	Ground	Ground	20 mApk
Grid Drive	195 Vpk	0 mApk	150 Vpk	275 Vpk	20 mApk
Grid Bias Off	-350 Vdc	0 mA	-300 Vdc	-500 Vdc	1.0 mÅ
Cathode (Ek)	-12.2 kV	416 mApk	-12 kV	-13 kV	480 mApk
Collector		'			'
Coll. #1	7.2 kV	85.0 mApk (w/RF)	59% x E	E _k ±2%	200 mApk
Coll. #2	5.0 kV	6.0 mApk(w/o RF) 324 mApk (w/RF) 406 mApk(w/o RF)	41% x E	c _k ±2%	480 mApk

RF Performance

Freq (GHz)	Typ. Sat. Power Output (W)	Min. Spec. Power Output (W)	Typ. Gain @ Spec. Power (dB)
15.50	710	700	45
16.10	725	700	47
16.70	725	700	48
17.30	725	700	47
17.90	710	700	47

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

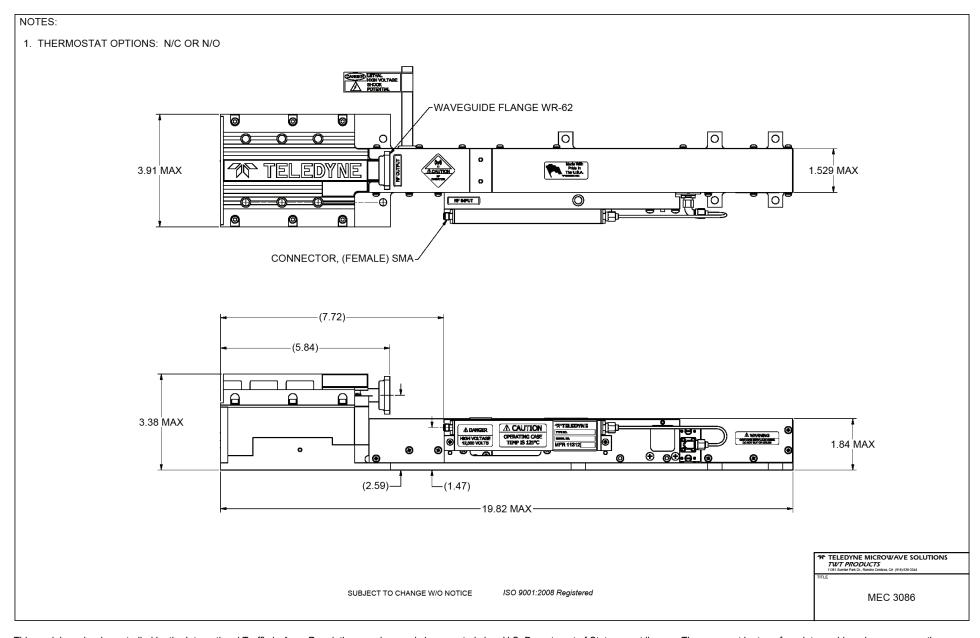
Performance	Typical	Spec
Input VSWR	1.90:1	2.0:1
Output VSWR		
Duty Cycle		
Noise Power Density		
(dBm/MHz)	>-105	105
Spurious	>-50 dBc	50 dBc
Prime Power	938 W	1200 W

Cathode voltage is measured with respect to ground.

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

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