

## 250 W Helix TWT Series

250 W, CW Helix TWT Series, 8.0 GHz to 18.0 GHz, Periodic-Permanent, Magnet Focused, Coaxial Input, Waveguide Output, and Conduction Cooled.

Custom configurations are also available. These variations in the performance and configuration include: mechanical configuration, electrical and RF connections, & dual stage depressed collector.



Model Number	Frequency (GHz)	Power Output (Min.)
VTM-6292M4	8.0 – 18.0	250 W

## **Features**

•	250 Watts	

8.0 GHz - 18.0 GHz

**PPM Focusing** 

Coaxial Input

Waveguide Output

Any Mounting Position

Weight: 9 lbs. Max

Conduction Cooled

## **Operating Parameters**

Parameters: Units: Maximum: Minimum:	Heater Voltage Ef Vdc 6.6 6.0	Heater Surge Current If Adc 5.0	Helix Voltage Ew Vdc 10,400 9,900	Collector Voltage 1 Eb 1 Vdc 5,670 5,000	Collector Voltage 2 Eb 2 Vdc 3,570 3,000	Cathode Current Ik mAdc 300
	Helix Current	Drive Power	Cathode Warm-u	-	Collector Thermostat	

Helix	Drive	Warm-up		Thermostat
Current	Power	Time	Load	Temperature
lw	Pd	tk		T Base
mAdc	mW	minutes		°C
20	200		3:1	130
		3		
	Current lw mAdc	Current Power lw Pd mAdc mW 20 200	Current lwPower PdTime tkmAdcmWminutes20200	Current         Power         Time         Load           Iw         Pd         tk            mAdc         mW         minutes            20         200          3:1

The values listed above represent specified limits for the product and are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.

