## Communications & Power Industries Helix Traveling Wave Tube



Custom configurations are also available. These variations in the performance and configuration include:

- mechanical configurations
- electrical and RF connections
- dual-stage depressed collector

	Frequency (GHz)	
VTC-6265M1	5.85 - 6.65	400 W
VTC-6264M1X	5.85 - 7.10	400 W

#### FEATURES

- 400 Watt
- 5.85 GHz 7.10 GHz
- PPM focusing
- Coaxial input
- Waveguide output
- Weight: 7.5 lbs. max
- Conduction cooled

#### **BENEFITS:**

- High efficiency
  - Less prime power required (due to multiple stage collectors)
- PPM focusing

#### **APPLICATIONS:**

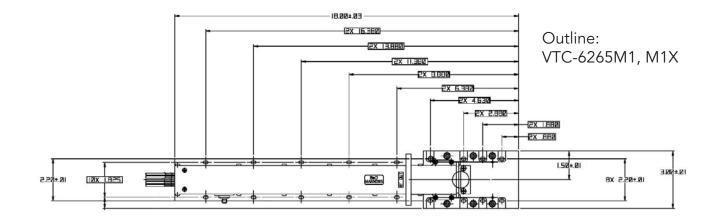
- Satellite uplinks
- Communications
- Instrumentation
- DBS (Direct Broadcast System)

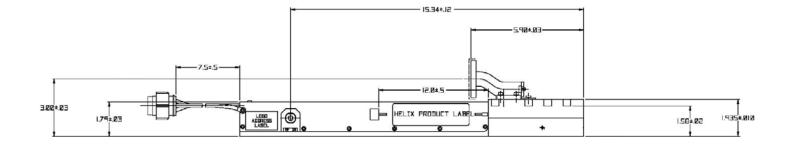
### **Typical Operating Parameters**

	Minimum	Maximum	Typical	Units
Heater voltage	5.9	6.3		Vdc
Heater surge current		5		А
Helix voltage	8.6	9.3		kVdc
Helix current		15		mAdc
Collector voltage 1	48% of Ew	52% of Ew		kVdc
Collector current 1		175		mAdc
Collector voltage 2	34% of Ew	30% of Ew		kVdc
Collector current 2		310		mAdc
Cathode current		310		mAdc
Cathode warm-up time	3			minutes
Drive power		10		mW
Baseplate temp		120		°C
Prime power				Watts
Load VSWR		1.5:1		VSWR



# CPI CW Helix Traveling Wave Tube: VTC-6265M1, M1X





With a history of producing high quality products, we can help you with your Helix TWT. Contact us at MPPMarketing@cpii.com or call us at +1 650-846-2800.

The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.



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