## **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)	Power output (min)	
VTC-6369C2	5.850 - 6.425	2.25 kW	
VTC-6369C6	5.850 - 6.725	2.0 to 2.25 kW	
VTC-6369C9	5.85 - 6.65	2.0 to 2.25 kW	

## FEATURES:

- 2.0 to 2.25 kW CW
- 5.850 6.725 GHz
- PPM focusing
- Coaxial input
- Waveguide output
- Any mounting position
- Weight: 25 lbs. max
- Forced-air cooled

#### **BENEFITS:**

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

## APPLICATIONS:

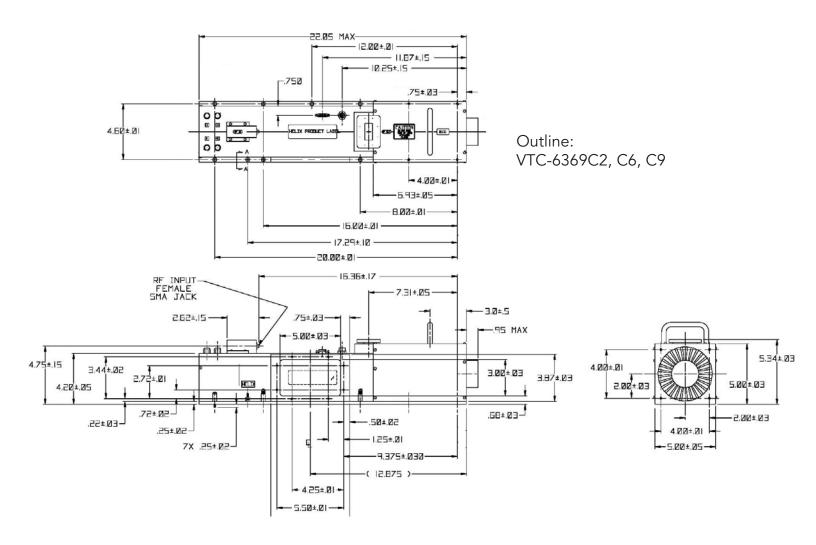
- Satellite uplinks
- Communications
- Instrumentation
- DBS (Direct Broadcast System)

Typical Operating Parameters

	Minimum	Maximum	Typical	Units
Heater voltage	6.0	6.6		Vdc
Heater surge current		5.0		Α
Helix voltage	14.0	15.5		kVdc
Helix current		25.0		mAdc
Collector voltage 1	63% of Ew	67% of Ew		kVdc
Collector current 1		990		mAdc
Collector voltage 2	33% of Ew	37% of Ew		kVdc
Collector current 2		650		mAdc
Cathode warm-up time	3.0			minutes
Collector temp		150		°C
Prime power		6750		W
Load VSWR		1.3:1		VSWR
Air flow		828		lb/hr



# CPI CW Helix Traveling Wave Tube: VTC-6369C2, C6, C9



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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