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)
VTX-6379E1	5.850 - 6.425/7.9 - 8.4	1000/2000 W

FEATURES:

- Dual band (C/X)
- 5.850 - 6.425 GHz, 1 kW, 7.90 - 8.40 GHz, 2 kW
- PPM focused
- 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

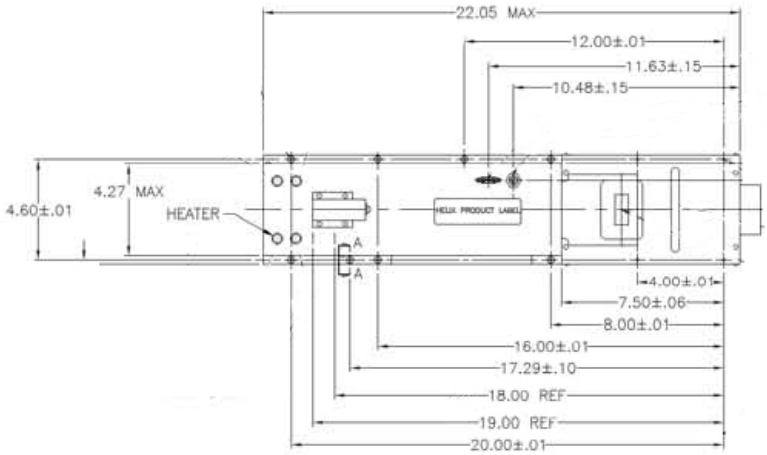
APPLICATIONS:

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

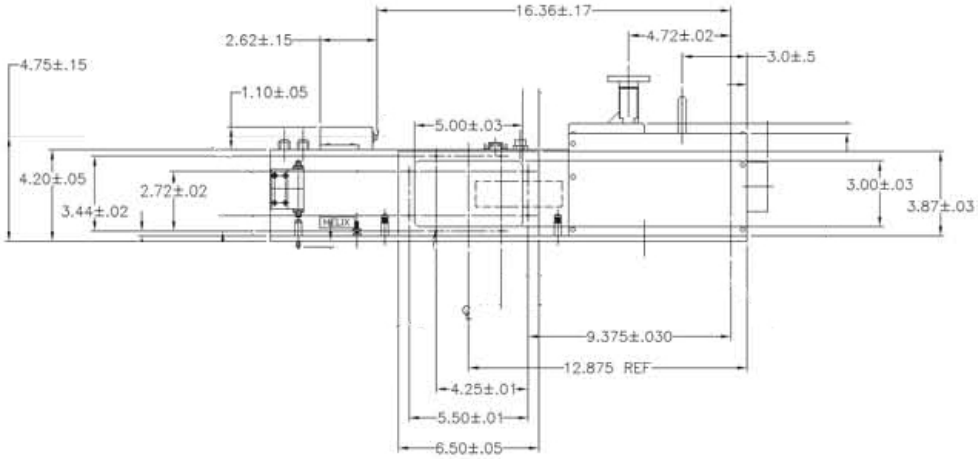
Typical Operating Parameters

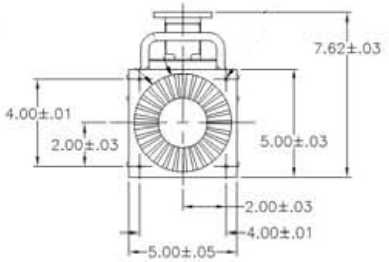
	Minimum	Maximum	Typical	Units
Heater voltage	6.0	6.6	---	Vdc
Heater surge current	---	5.0	---	A
Helix voltage	13.9	15.4	---	kVdc
Helix current	---	22.0	---	mAdc
Collector voltage 1	58% of Ew	62% of Ew	---	kVdc
Collector current 1	---	500	---	mAdc
Collector voltage 2	28% of Ew	32% of Ew	---	kVdc
Collector current 2	---	900	---	mAdc
Cathode warm-up time	3.0	---	---	minutes
Collector temp	---	150	---	°C
Prime power	---	6750	---	W
Load VSWR	---	1.7:1	---	VSWR
Air flow	---	628	---	lb/hr

CPI CW Helix Traveling Wave Tube: VTX-6379E1



Outline:
VTX-6379E1





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.

Communications & Power Industries

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For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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