

Communications & Power Industries Helix Traveling Wave Tube

FEATURES:

- 400 W peak, 220 W avg
- 12.75 GHz - 14.50 GHz
- Coaxial input
- Waveguide output
- Weight: 5.7 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)

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

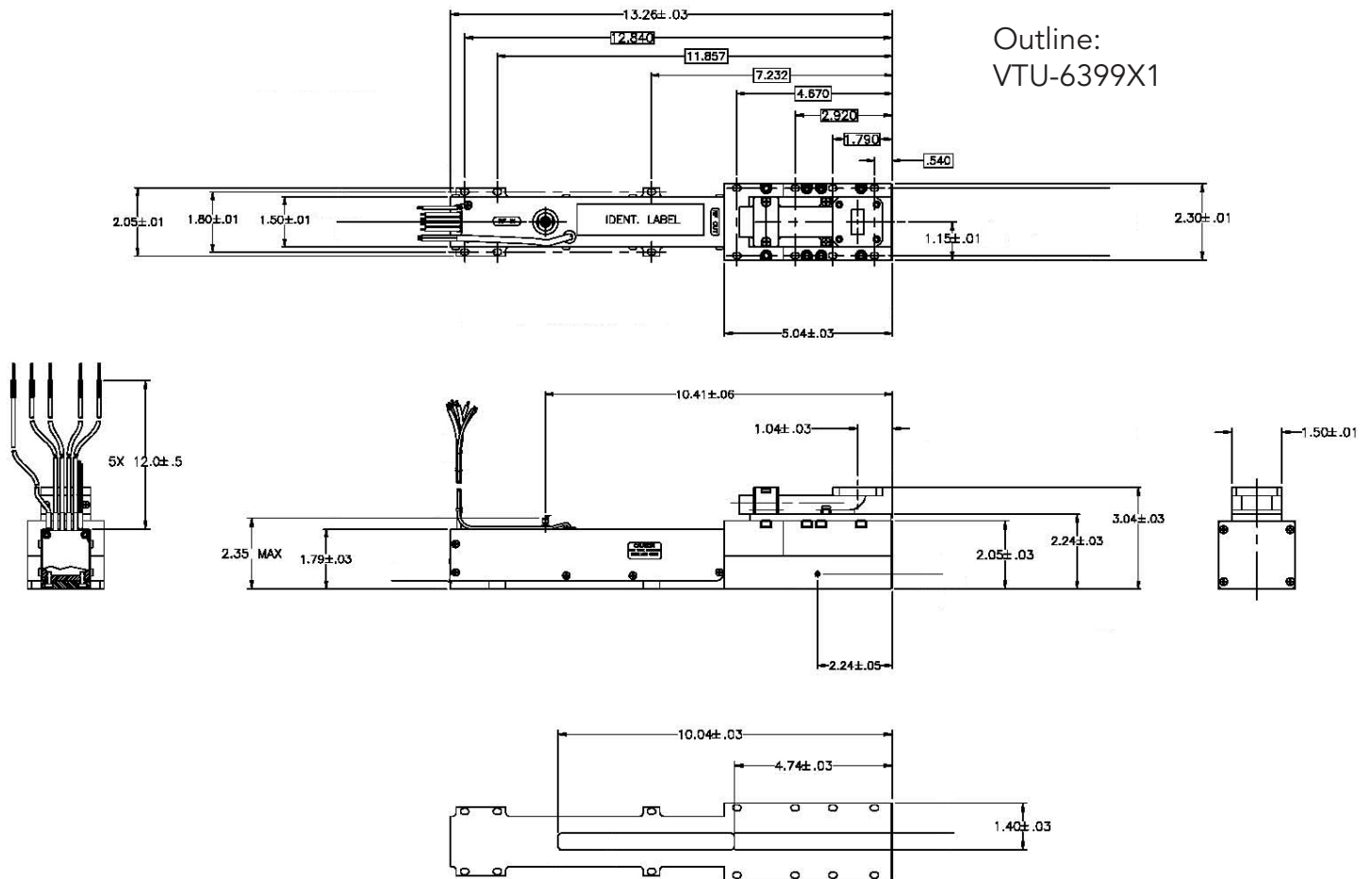
- mechanical configurations
- electrical and RF connections
- dual-stage depressed collector

	Frequency (GHz)	Power output (min)
VTU-6399X1	12.75 - 14.50	400 W Peak 220 W Avg.

Typical Operating Parameters

	Minimum	Maximum	Typical	Units
Heater voltage	6.2	6.4	6.3	Vdc
Heater surge current	1.0	1.5	1.3	A
Helix voltage	8.6	9.1	8.9	kVdc
Helix current	---	10.0	8.0	mAdc
Collector voltage 1	49.0	51.0	50.0	%
Collector current 1	---	150	---	mAdc
Collector voltage 2	12.0	14.0	13.0	%
Collector current 2	---	300	---	mAdc
Filament warm-up time	---	3.0	---	minutes
Drive power	---	12	6	dBm
Prime power	---	760	---	W
Thermal temperature	---	540	---	W
Load VSWR	---	1.5:1	---	VSWR

CPI CW Helix Traveling Wave Tube: VTU-6399X1



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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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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