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)
VTU-6295M1A	13.75 - 14.50	400 W

FEATURES:

- 400 W
- 13.75 - 14.50 GHz
- Coaxial input
- Waveguide output
- Weight: 9 lbs. max
- Conduction cooled

BENEFITS:

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

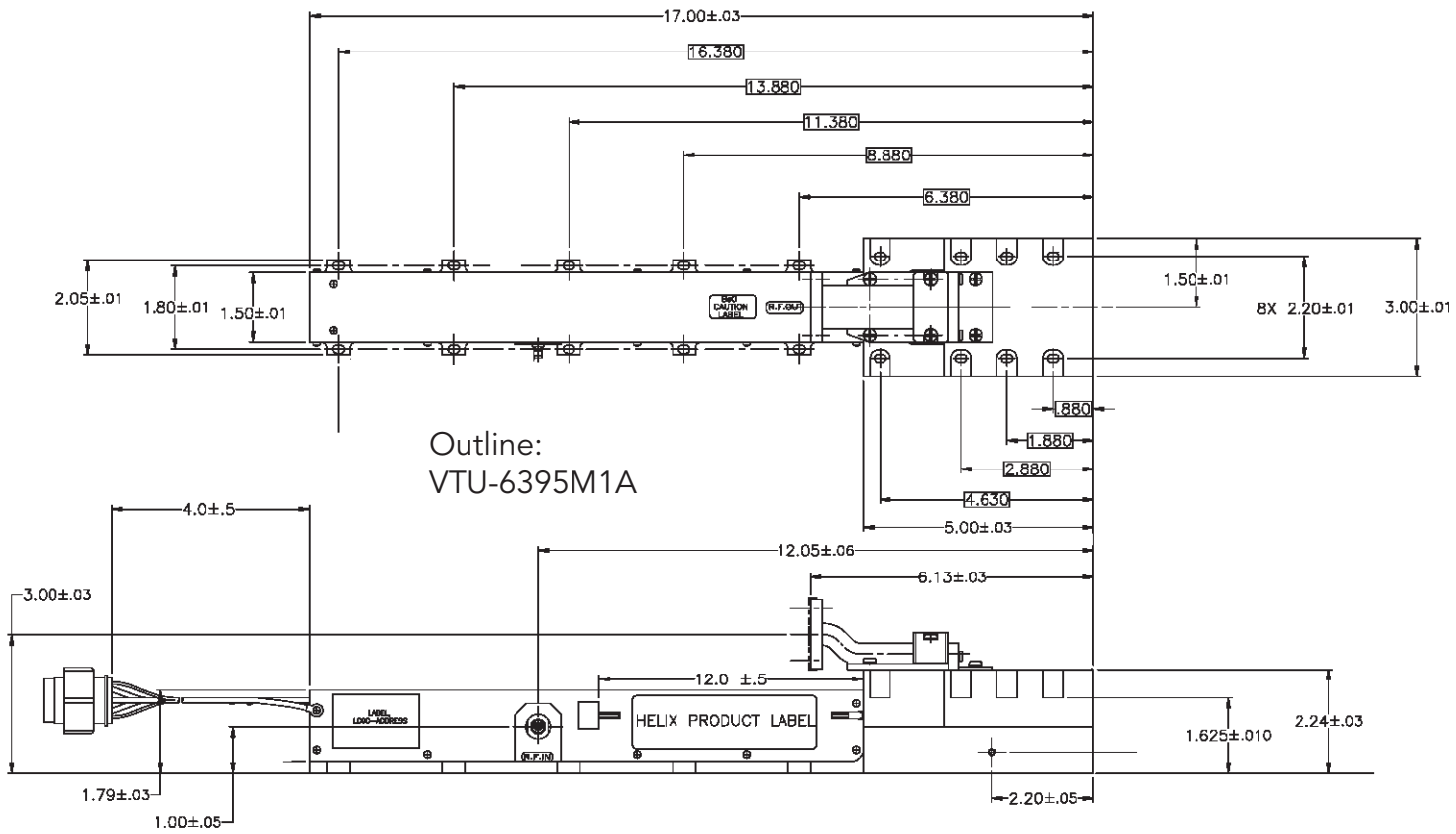
APPLICATIONS:

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

Typical Operating Parameters

	Minimum	Maximum	Typical	Units
Heater voltage	6.1	6.5	---	Vdc
Heater surge current	---	5.0	---	A
Helix voltage	8.2	9.0	---	kVdc
Helix current	---	10.0	---	mAdc
Collector voltage 1	.48	.52	---	%
Collector current 1	---	175	---	mAdc
Collector voltage 2	.30	.34	---	%
Collector current 2	---	310	---	mAdc
Cathode current	---	310	---	mAdc
Cathode warm-up time	3.0	---	---	minutes
Drive power	---	50	---	mW
Prime power	---	1100	---	W
Baseplate temperature	---	120	---	°C
Load VSWR	---	1.5:1	---	VSWR

CPI CW Helix Traveling Wave Tube: VTU-6395M1A



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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7/20