

## 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-5192H2	8.0 - 18.0	2.0 kW

### FEATURES:

- 8.0 - 18.0 GHz
- Unigr<sup>®</sup>-pulsed
- PPM focusing
- Coaxial input
- Waveguide output
- Weight: 7 lbs. max
- Conduction cooled

### BENEFITS:

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

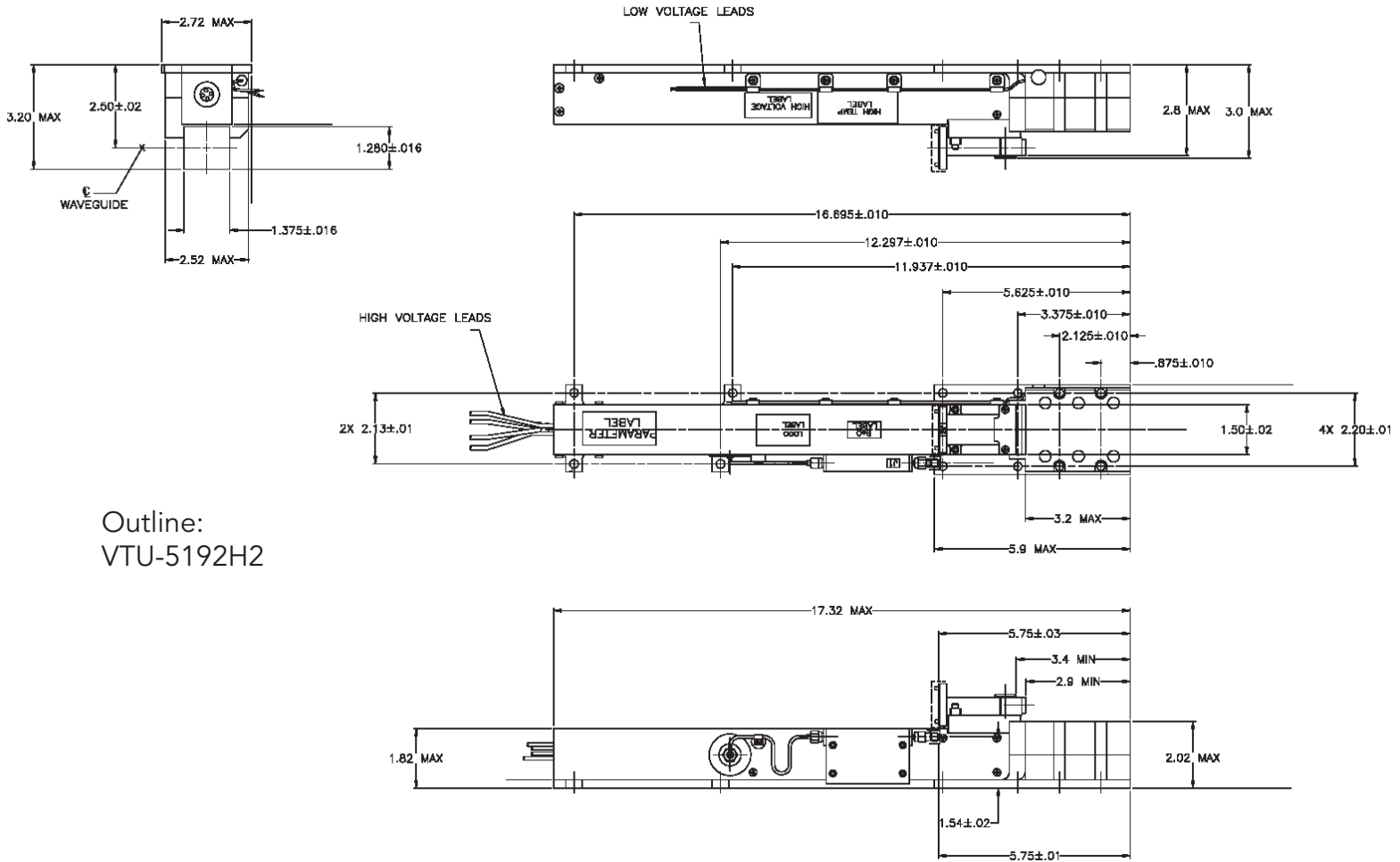
### APPLICATIONS:

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

### Typical Operating Parameters

	Minimum	Maximum	Typical	Units
Heater voltage	6.0	6.6	---	Vdc
Heater surge current	---	7.0	---	A
Helix voltage	10.8	-12.2	---	kVdc
Helix current	---	500	---	mAdc
Collector voltage	7.3 Ew	---	---	kAdc
Beam current	---	2.0	---	A
Grid gate voltage	125	250	---	V
Grid bias voltage	-200	-250	---	Vdc
RF Drive power	---	25	---	dBm
Beam duty	---	4	---	%
Cathode warm-up time	5.0	---	---	minutes
Beam duty	---	25	---	dBm
Load VSWR	---	2.0:1	---	VSWR

# CPI Pulsed Helix Traveling Wave Tube: VTU-5192H2



Outline:  
VTU-5192H2

With a history of producing high quality products, we can help you with your Helix TWT.  
Contact us at [MPPMarketing@cpii.com](mailto: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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