

## 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-6361D3A	5.850 - 6.725	750 W
VTC-6361D5A	5.85 - 7.10	750 W

### FEATURES:

- 750 W CW
- 5.85 - 7.1 GHz
- Coaxial input
- Waveguide output
- Weight: 25 lbs. max.
- Air cooled

### BENEFITS:

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

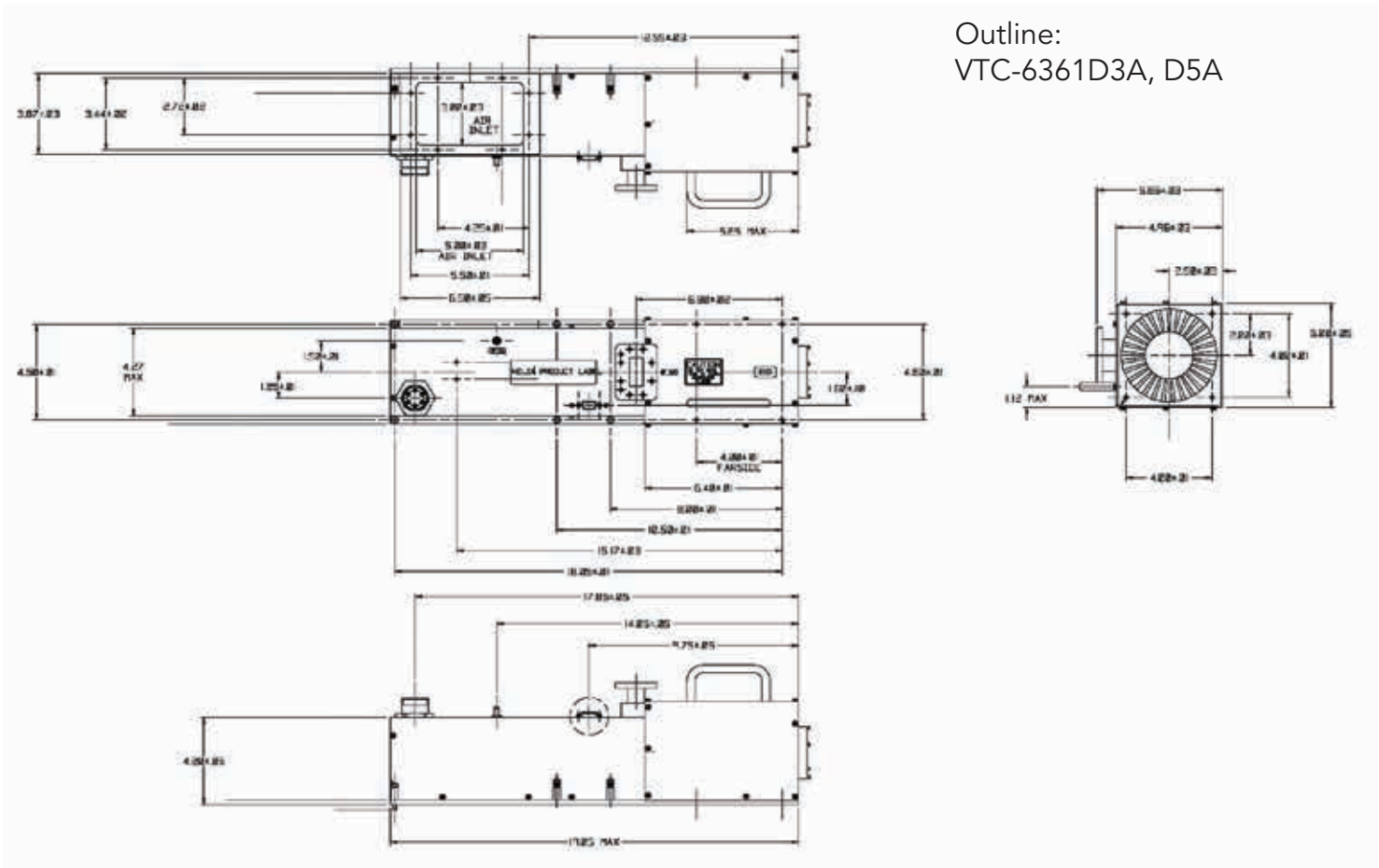
### APPLICATIONS:

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

## Typical Operating Parameters

	Minimum	Maximum	Typical	Units
Heater voltage	6.2	6.4	6.3	Vdc
Heater surge current	1.0	1.8	1.5	A
Helix voltage	10.5	11.5	11.1	kVdc
Helix current	---	15	<10.0	mAdc
Collector voltage 1	51% of Ew	53% of Ew	52% of Ew	kVdc
Collector current 1	---	240	17 dc/230 rf	mAdc
Collector voltage 2	25% of Ew	27% of Ew	26% of Ew	kVdc
Collector current 2	---	460	390 dc/190 rf	mAdc
Heater warm-up time	3.0	---	---	minutes
Drive power	---	22	20	dBm
Prime power	2000	2300	2100	W
Load VSWR	---	2.0	1.0	VSWR
Thermal dissipation	---	1900	1375	W

# CPI CW Helix Traveling Wave Tube: VTC-6361D3A, D5A



Outline:  
VTC-6361D3A, D5A

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.