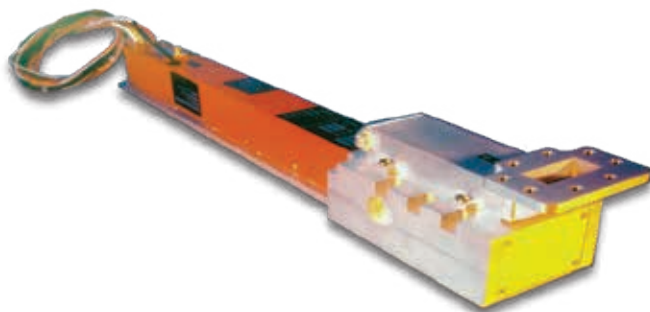## Communications & Power Industries High Energy Helix TWT

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-6264D4	5.85 - 7.1	400 W
VTC-6264D2C	5.85 - 7.1	400 W

FEATURES:
- 400 Watt
- PPM Focusing
- Coaxial Input
- Waveguide Output
- Weight: 7.5 lbs. max
- Conduction Cooled
- Dual Stage Collector

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	5.9	6.3	---	Vdc
Heater surge current	1.0	1.8	1.4	A
Helix voltage	8.4	9.1	8.8	kVdc
Helix current	---	15	6	mAdc
Collector voltage 1	49% of Ew	55% of Ew	50% of Ew	kVdc
Collector current 1	---	175	125	mAdc
Cathode current	---	310	290	mAdc
Collector voltage 2	31% of Ew	35% of Ew	32% of Ew	kVdc
Collector current 2	---	310	160	mAdc
Cathode warm-up time	3	---	3	minutes
Drive power	---	10	6	mW
Baseplate temp	---	120	85	°C
Prime power	---	1150	---	Watts
Load VSWR	---	1.5:1	<1.25	VSWR

CPI Communications & Power Industries

CPI CW Helix Traveling Wave Tube: VTC-6264D4, D2C

Outline:
VTC-6264D4, D2C

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.