

Communications & Power Industries Helix Traveling Wave Tube



FEATURES:

- 40 W CW and pulsed
- 18.0 - 26.5 GHz
- Coaxial input
- Waveguide output
- PPM Focusing
- Weight: 7 lbs. max
- Conduction cooled
- Any mounting position

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:

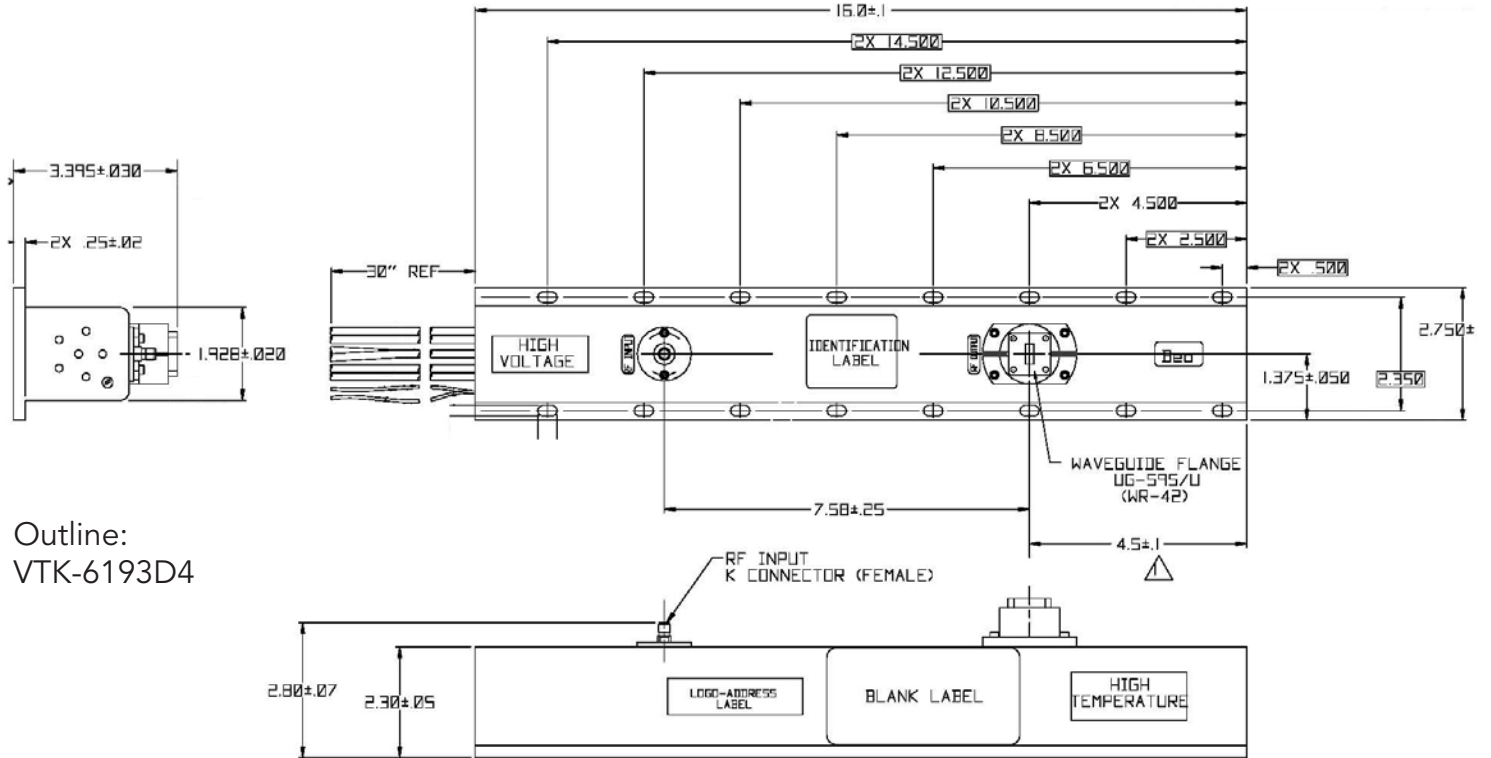
- mechanical configurations
- electrical and RF connections
- dual-stage depressed collector

	Frequency (GHz)	Power output (min)
VTK-6193D4	18.0 - 26.5	40 W

Typical Operating Parameters

	Minimum	Maximum	Typical	Units
Filament voltage	6.0	6.6	6.3	Vdc
Filament current	0.8	1.5	1.1	A
Helix voltage	11.5	13.2	12.6	kVdc
Helix current	---	4.0	---	mAdc
Beam current	60	110	85	mAdc
Focus voltage ON	-50	-2	-45	V
Focus voltage OFF	-1000	-800	-850	V
Collector voltage	41% of Ew	49% of Ew	45% of Ew	kVdc
Collector current	---	110	85	mAdc
Anode voltage	+0	+500	+200	V
Anode current	---	1.0	0	mA
Cathode warm-up time	5.0	---	5.0	minutes
Prime power	---	675	---	W
Load VSWR	---	1.7:1	1.25	VSWR

CPI CW Helix Traveling Wave Tube: VTK-6193D4



Outline:
VTK-6193D4

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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