

300 W Ku-Band Helix TWT Series

300 W, CW Helix TWT Series, 12.75 GHz to 14.5 GHz, Periodic-Permanent, Magnet Focused, Coaxial Input, Waveguide Output, and Forced-Air Cooled.

Custom configurations are also available. These variations in the performance and configuration include: mechanical configuration, electrical and RF connections, & dual stage depressed collector.



Model Number	Frequency (GHz)	Power Output (Min.)
VTU-6393M5	12.75 – 14.50	300 W

Features

- 300 Watts
- 12.75 GHz – 14.50 GHz
- PPM Focusing
- Coaxial Input
- Waveguide Output
- Any Mounting Position
- Weight: 16 lbs. Max
- Forced-Air Cooled

Operating Parameters

	Heater Voltage	Heater Surge Current	Helix Voltage	Collector Voltage	Cathode Current	Helix Current
Parameters:	Ef	If	Ew	Eb	Ik	Iw
Units:	V	A	Vdc	kVdc	mAdc	mAdc
Maximum:	6.3	5	10.0	0.55 Ew	280	10
Minimum:	5.9	---	9.4	0.49 Ew	---	---

	Drive Power	Cathode Warm-up Time	Load VSWR	Collector Thermostat Temperature	Air Flow
Parameters:	Pd	tk			
Units:	dBm	minutes		°C	lb/hr
Maximum:	12	---	1.7:1	---	---
Minimum:	---	3	---	---	360

The values listed above represent specified limits for the product and are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.