

# 400 W, Ku-Band Helix TWT Series

400 W, CW Helix TWT Series, 13.75 GHz to 14.5 GHz, Periodic-Permanent, Magnet Focused, Coaxial Input, Waveguide Output, and Conduction Cooled.

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

## PICTURE

Model Number	Frequency (GHz)	Power Output (Min.)
VTU-6395M1A	13.75 - 14.5	400 W
VTU-6395M7A	13.75 - 14.8	400 W

## Operating Parameters

### Features

- 400 Watts
- PPM Focusing
- Coaxial Input
- Waveguide Output
- Any Mounting Position
- Weight: 9 lbs. max (6.3 typical 2.6 kg)
- Conduction Cooled
- Dual Stage Collector

Parameters:	Heater Voltage Ef	Heater Current If	Heater Surge Current If (surge)	Helix Voltage Ew	Collector Voltage Eb1	Collector Voltage Eb2	Cathode Current Ik
<b>Units:</b>	V	Adc	A	kVdc	kVdc	kVdc	mAdc
<b>Maximum:</b>	6.5	1.8	5.0	9.0	0.52 Ew	0.34 Ew	310
<b>Minimum:</b>	6.1	1.0	---	8.2	0.48 Ew	0.30 Ew	---
<b>Typical:</b>	6.3	1.3	<5.0	8.8	0.50 Ew	0.32 Ew	280

  

Parameters:	Helix Current Iw	Drive Power Pd	Cathode Warm-Up Time tk	Load VSWR	Baseplate Temp. °C	Collector 1 Current Ib1	Collector 2 Current Ib2
<b>Units:</b>	mAdc	mW	minutes			mA (dc)	mA (dc)
<b>Maximum:</b>	10	50	---	1.5:1	120	175	310
<b>Minimum:</b>	---	---	3	---	---	---	---
<b>Typical:</b>	<5.0	1.0	3	1.2	85	130	145

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.

For additional information on CPI MPP products contact:

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