

# 750 W, Ku-Band Helix TWT Series

750 W, CW High Efficiency Helix TWT Series, 13.75 GHz to 14.50 GHz, Coaxial Input, Waveguide Output, and 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-6397D5A	12.75 – 14.5	750 W
VTU-6397C3A	13.75 – 14.5	750 W
VTU-6397D7	12.75 – 14.8	700 W
VTU-6397D5	12.75 – 14.5	700 W
VTU-6397C3	13.75 – 14.5	700 W
VTU-6396D5	12.75 – 14.5	600 W
VTU-6396D3	13.75 – 14.5	600 W

## Operating Parameters

### Features

- 750 Watts
- 13.75 GHz – 14.50 GHz
- Coaxial Input
- Waveguide Output
- Weight: 25 lbs. max
- Air Cooled

	Filament Voltage	Filament Current	Helix Voltage	Helix Current	Collector Voltage 1	Collector Current 1	
<b>Units:</b>	Vdc	A	kV	mA	%	mA	
<b>Maximum:</b>	6.4	1.8	12.5	10.0	53.0	30 dc 240 rf	
<b>Minimum:</b>	6.2	1.0	11.8		51.0		
<b>Nominal:</b>	6.3	1.5	12.4	3.0	51.0	17 dc 215 rf	
<b>Typical (700 W):</b>							
<b>Typical (750 W):</b>							
	Collector Voltage 2	Collector Current 2	Cathode Warm-Up Time	Drive Power	Prime Power	Thermal Dissipation	Load VSWR
<b>Units:</b>	%	mA	minutes	dBm	Watts	Watts	VSWR
<b>Maximum:</b>	27.0	420.0		18	1950 Goal	1900	1.2
<b>Minimum:</b>	25.0		3.0				
<b>Nominal:</b>	26.0	400 dc 200 rf		10	1925	1350	
<b>Typical (700 W):</b>							
<b>Typical (750 W):</b>							

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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