

# 1200 W, Peak, Ku-Band Helix TWT Series

1200 Watt peak, 600 Watt average,  
13.75 - 14.50 GHz CW high efficiency traveling wave tube, coaxial input, waveguide output, conduction cooled.



## FEATURES

- 1200 Watt Peak, 600W Average
- 13.75 GHz - 14.50 GHz
- Coaxial Input
- Waveguide Output
- Weight: 25 lbs. max
- Conduction Cooled

## MODEL

VTU-6397H1

## FREQUENCY (GHZ)

13.75 - 14.5

## POWER OUTPUT (MIN)

1.2 kW Peak, 600W Avg

## TYPICAL OPERATING PARAMETERS

	MINIMUM	MAXIMUM	TYPICAL	UNITS
<b>Filament Voltage:</b>	6.2	6.4	6.3	Vdc
<b>Filament Current:</b>	1.0	1.8	1.5	A
<b>Helix Voltage:</b>	14.3	15.3	14.8	kV
<b>Helix Current:</b>	---	10.0	3.0	mA
<b>Collector Voltage 1:</b>	51.0	53.0	52.0	%
<b>Collector Current 1:</b>	---	350 rf	50 dc / 250 rf	mA
<b>Collector Voltage 2:</b>	12.0	14.0	13.0	%
<b>Collector Current 2:</b>	---	580	550 dc / 300 rf	mA
<b>Cathode Warm-up Time:</b>	3.0	---	---	Minutes
<b>Drive Power:</b>	---	18	10	dBm
<b>Prime Power:</b>	---	2300	2150	Watts
<b>Thermal Dissipation</b>	---	1675	1550	Watts
<b>Load VSWR:</b>	---	1.2	1.1	VSWR

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.



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