

400 W, Ku-Band Helix TWT Series

400 W, CW High Efficiency Helix TWT Series, 13.75 GHz to 14.50 GHz, 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.



Model Number	Frequency (GHz)	Power Output (Min.)
VTU-6392D2A	13.75 – 14.5	400 W
VTU-6392D2B	13.75 – 14.5	400 W
VTU-6392D5U	12.75 – 14.5	350 W
VTU-6392D2X	13.75 – 14.5	350 W

Operating Parameters

Features

- 400 Watts
- Coaxial Input
- Waveguide Output
- Weight: 6 lbs. max
- Conduction Cooled
- Dual Stage Collector

Units:
Maximum:
Minimum:
Typical (400 W):
Typical (350 W):

Filament Voltage	Filament Current	Helix Voltage	Helix Current	Collector Voltage 1	Collector Current 1	Collector Voltage 2	Collector Current 2	Cathode Warm-Up Time	Drive Power	Baseplate Temp.	Prime Power	Load VSWR
Vdc	A	kV	mA	%	mA	%	mA	minutes	dBm	°C	Watts	VSWR
6.4	1.8	9.0	10.0	51.0	150	33.0	300		10	85	1100	1.5
6.2	1.0	8.2		49.0		31.0						
6.3	1.3	8.8	4.0	50.0	10 dc	32.0	280 dc	3	0	85	1050	1.2
					130 rf							
6.3	1.3	8.8	4.0	50.0	10 dc	32.0	265 dc	3	+2	85	950	1.2
					110 rf							

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.