

# 40 W, 26.5 - 40.0 GHz Helix TWT

VTA-6193A4 is 40 W, CW and Pulsed Helix TWT, 26.50 GHz to 40.00 GHz, Periodic-Permanent, Magnet Focused, Waveguide 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.)
VTA-6193A4	26.5 - 40.0	40 W
VTA-6193A4X	26.5 - 40.0	40 W

## Operating Parameters

### Features

- 40 Watts
- PPM Focusing
- Coaxial Input
- Waveguide Input and Waveguide Output
- Any Mounting Position
- Weight: 7 lbs. max
- Conduction Cooled

Parameters:	Heater Voltage Ef	Heater Current If	Heater Surge Voltage If (peak)	Helix Voltage Ew	Helix Current Iw	Beam Current Ik	Focus Voltage (ON) ec
<b>Units:</b>	Vdc	A	A	kVdc	mA	mA	V
<b>Maximum:</b>	6.6	1.5	3.0	13.2	4.0	110	-2
<b>Minimum:</b>	6.0	0.8	---	11.5	---	60	-50
<b>Typical:</b>	6.3	1.1	<3.0	12.6	<0.5	85	-45

  

Parameters:	Focus Voltage (OFF) Ec	Collector Voltage Eb	Collector Current Ib	Anode Voltage Ea	Anode Current Ia	Heater Warm-up Time tk	Load VSWR ratio
<b>Units:</b>	V	kVdc	mAdc	V (wrt Gnd)	mA	minutes	
<b>Maximum:</b>	-800	49% of Ew	110	+500	1.0	---	1.7:1
<b>Minimum:</b>	-1000	41% of Ew	---	+0	---	5	---
<b>Typical:</b>	-850	45% of Ew	85	+200	0	5	1.25

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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