

VTK-6193D4 is 40 W, CW and Pulsed Helix TWT, 18.0 GHz to 26.5 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.



Model Number	Frequency (GHz)	Power Output (Min.)
VTK-6193D4	18.0-26.5	40 W
VTK-6193D4X	18.0-26.5	40 W

Operating Parameters

Features

- 40 Watts
- 18.00 GHz – 26.50 GHz
- PPM Focusing
- Coaxial Input
- Waveguide Output
- Any Mounting Position
- Weight: 7 lbs. max
- Conduction Cooled

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

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