

200 W, CW Helix TWT Series, 1.0 GHz to 2.0 GHz, Periodic-Permanent, Magnet Focused, Coaxial Input and Coaxial 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.) |
|--------------|-----------------|---------------------|
| VTL-6242L1   | 1.0 – 2.0       | 200 W               |

## Features

- 200 Watts
- 1.0 GHz – 2.0 GHz
- PPM Focusing
- Coaxial Input
- Coaxial Output
- Any Mounting Position
- Weight: 20 lbs. Max
- Conduction Cooled

## Operating Parameters

|                    | Heater Voltage | Heater Surge Current | Collector Voltage | Cathode Current | Helix Voltage | Helix Current |
|--------------------|----------------|----------------------|-------------------|-----------------|---------------|---------------|
| <b>Parameters:</b> | Ef             | If                   | Eb                | Ik              | Ew            | Iw            |
| <b>Units:</b>      | V              | A                    | Vdc               | mAdc            | Vdc           | mAdc          |
| <b>Maximum:</b>    | 6.6            | 5.0                  | 3900              | 525             | 3900          | 65            |
| <b>Minimum:</b>    | 6.0            | ---                  | EW                | ---             | 3100          | ---           |
|                    | Drive Power    | Cathode Warm-up Time | Load VSWR         | Load VSWR       |               |               |
| <b>Parameters:</b> | Pd             | tk                   | VSWR              | To Base         |               |               |
| <b>Units:</b>      | mW             | minutes              |                   | °C              |               |               |
| <b>Maximum:</b>    | 500            | ---                  | 2.0               | 100             |               |               |
| <b>Minimum:</b>    | ---            | 3                    | ---               | ---             |               |               |

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.