

250 W, CW Helix TWT Series, 1.0 to 2.5 GHz, periodic-permanent, magnet focused, coaxial input, waveguide output, conduction cooled.

Custom configurations are also available. These variations in the performance and configuration include: mechanical configuration, electrical and RF connections, and dual-stage depressed collector.

### FEATURES

- 250 W
- 1.0 to 2.5 GHz
- PPM Focusing
- Coaxial Input
- Waveguide Output
- Any Mounting Position
- Weight: 20 lbs. max
- Conduction Cooled

| MODEL      | FREQUENCY (GHZ) | POWER OUTPUT (MIN) |
|------------|-----------------|--------------------|
| VTL-6242L2 | 1.0 - 2.5       | 250 W              |

| TYPICAL OPERATING PARAMETERS |         |         |         |         |
|------------------------------|---------|---------|---------|---------|
|                              | MAXIMUM | MINIMUM | TYPICAL | UNITS   |
| Heater Voltage:              | 6.6     | 6.0     | ---     | V       |
| Heater Surge Current:        | 5.0     | ---     | ---     | A       |
| Helix Voltage:               | 3.9     | 3.1     | ---     | kVdc    |
| Helix Current:               | 65      | ---     | ---     | mAdc    |
| Beam Current:                | 600     | ---     | ---     | mAdc    |
| Collector Voltage :          | 3.9     | EW      | ---     | kVdc    |
| Heater Warm-up Time:         | ---     | 3       | ---     | Minutes |
| Drive Power:                 | 500     | ---     | ---     | mW      |
| Baseplate Temp:              | 100     | ---     | ---     | °C      |
| Load VSWR:                   | 2.0     | ---     | ---     | 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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