

## Terminations

American Technical Ceramics introduces its complete line of High Power Termination Products. All Products are designed and manufactured at our ISO 9001 Facilities. All products are designed to meet MIL-PRF-55342 and ATC qualification procedure JP625-4102.

### Electrical Specifications

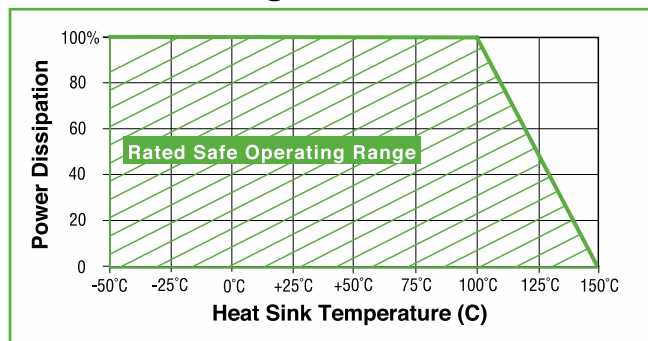
- **Resistance:** 50  $\Omega$  standard (10  $\Omega$  - 200  $\Omega$  available)
- **Resistance Tolerance:**  $\pm 5\%$  standard ( $\pm 2\%$  available)
- **Power:** 10 Watts through 250 Watts
- **Operating Temperature Range:**  $-55^{\circ}\text{C}$  -  $+150^{\circ}\text{C}$
- **Temperature Coefficient:**  $< 150$  ppm/ $^{\circ}\text{C}$
- **Low VSWR**

### Mechanical Specifications

- **Package:** Surface Mount Chips, Chips, Leaded Chips, Flanged
- **Substrate Material:** Aluminum Nitride
- **Process:** Thin Film
- **Resistive Material:** Tantalum
- **Terminals:** Silver
- **Cover:** Alumina
- **Mounting Flange:** 100% Cu, Ni or Ag Plated
- **Mechanical Tolerance:**  $\pm .005$
- **Lead-Free, RoHS Compliant**
- **SMT and Chip products, supplied on Tape and Reel**



## Power Derating



## ATC Flange Mount Terminations Part Number Code

|             | FT1 | 0300 | N | 0050 | J | BK |                      |
|-------------|-----|------|---|------|---|----|----------------------|
| Case Style  |     |      |   |      |   |    | Packaging            |
| Case Size   |     |      |   |      |   |    | BK - Plastic Carrier |
| Termination |     |      |   |      |   |    | Tolerance*           |
|             |     |      |   |      |   |    | J $\pm 5\%$          |
|             |     |      |   |      |   |    | Value                |

\*G  $\pm 2\%$  available - Consult Factory

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Excerpt from ATC # 001-944; Rev. W, 9/17

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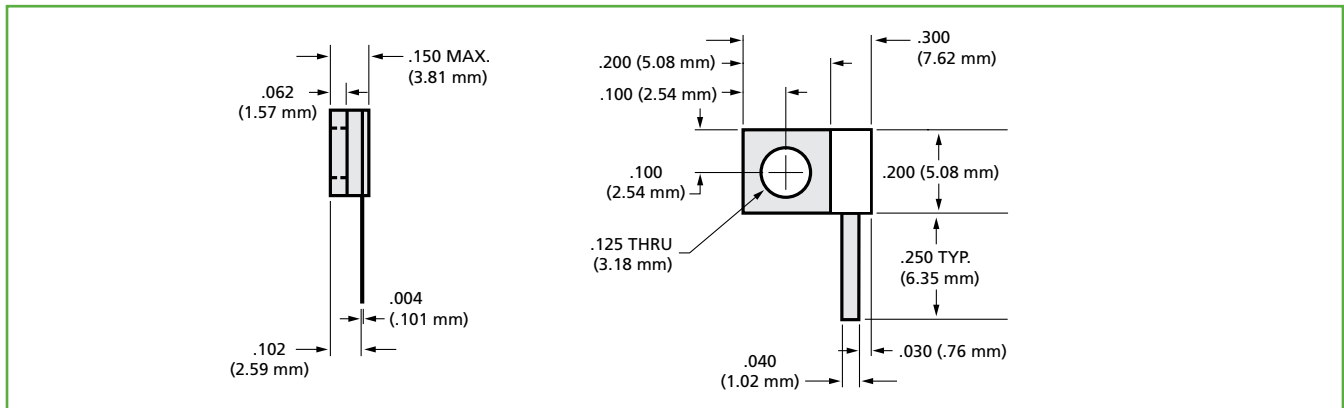
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## High Power, Flange Mount Termination

P/N: FT10300N0050J

### Electrical Specifications

- Nominal Impedance: 50  $\Omega$   $\pm$ 5% standard (other  $\Omega$  values available)
- Power: 20 Watts
- Frequency: DC to 6 GHz
- VSWR: 1.15:1 @ 4 GHz, 1.25:1 @ 6 GHz,
- Operating Temperature Range: -55°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant

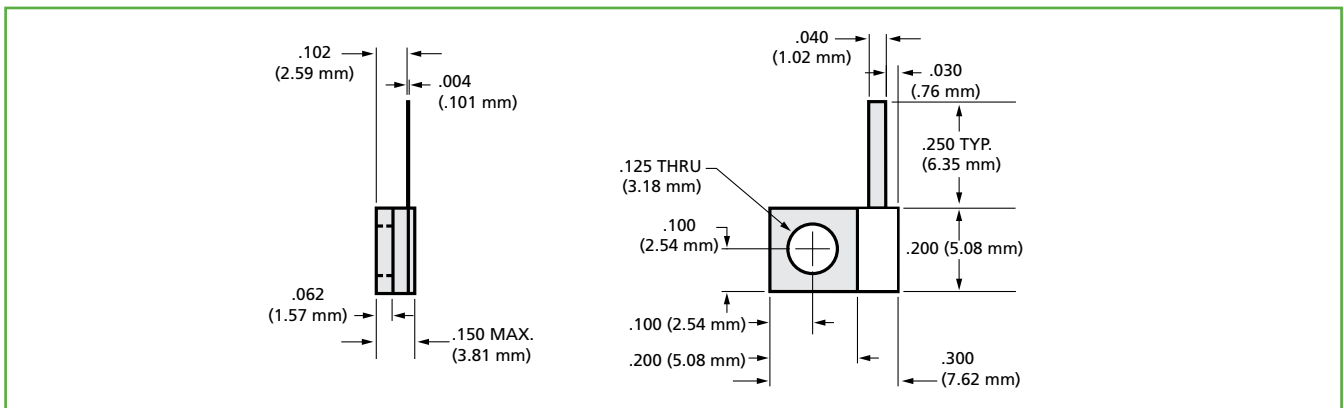


## High Power, Flange Mount Termination

P/N: FT10301N0050J

### Electrical Specifications

- Nominal Impedance: 50  $\Omega$   $\pm$ 5% standard (other  $\Omega$  values available)
- Power: 20 Watts
- Frequency: DC to 6 GHz
- VSWR: 1.15:1 @ 4 GHz, 1.25:1 @ 6 GHz,
- Operating Temperature Range: -55°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant



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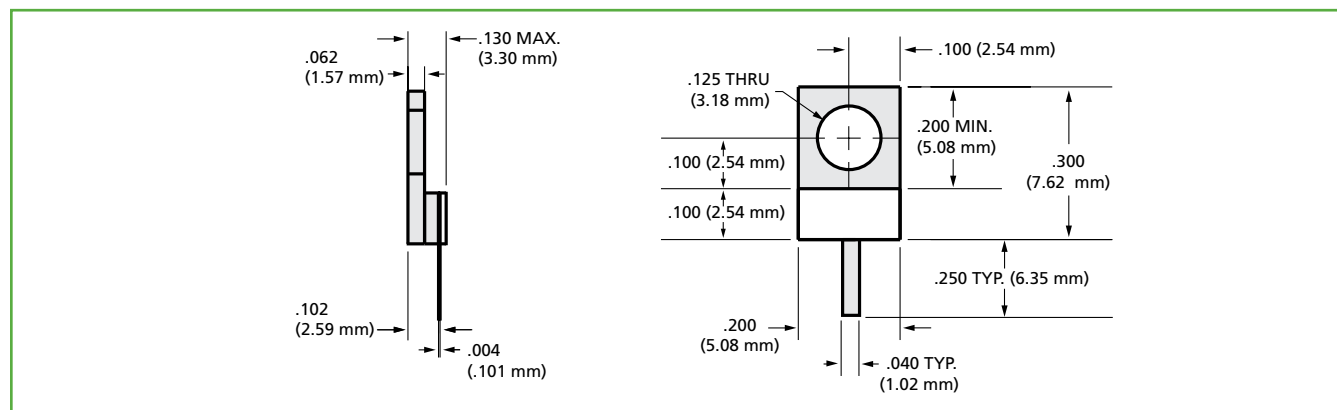
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## High Power, Flange Mount Termination

**P/N: FT10302N0050J**

### Electrical Specifications

- Nominal Impedance: 50  $\Omega$   $\pm$ 5% standard (other  $\Omega$  values available)
- Power: 20 Watts
- Frequency: DC to 18 GHz
- VSWR: 1.15:1 @ 15 GHz, 1.25:1 @ 18 GHz
- Operating Temperature Range: -55°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant

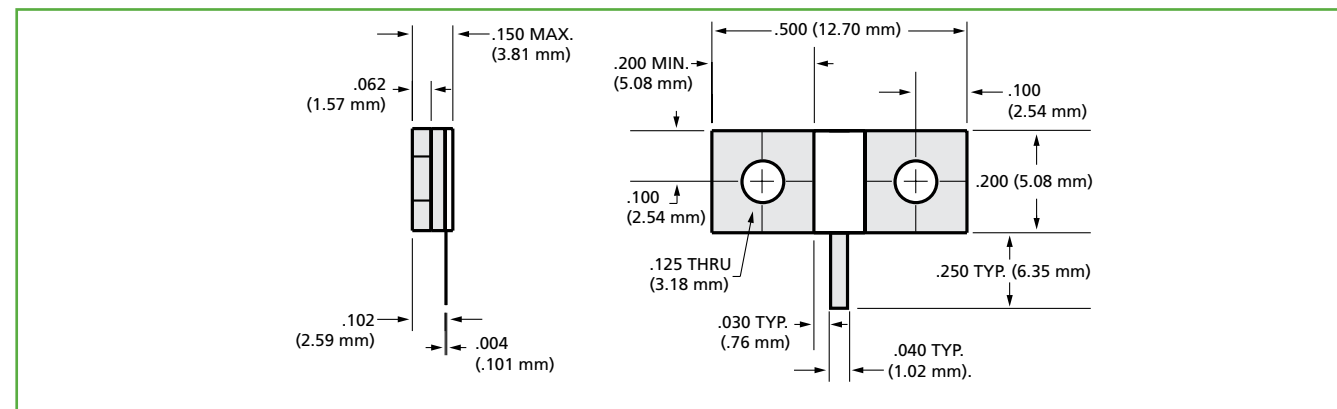


## High Power, Flange Mount Termination

**P/N: FT10500N0050J**

### Electrical Specifications

- Nominal Impedance: 50  $\Omega$   $\pm$ 5% standard (other  $\Omega$  values available)
- Power: 25 Watts
- Frequency: DC to 6.0 GHz
- VSWR: 1.15:1 @ 4 GHz, 1.25:1 @ 6 GHz
- Operating Temperature Range: -55°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant



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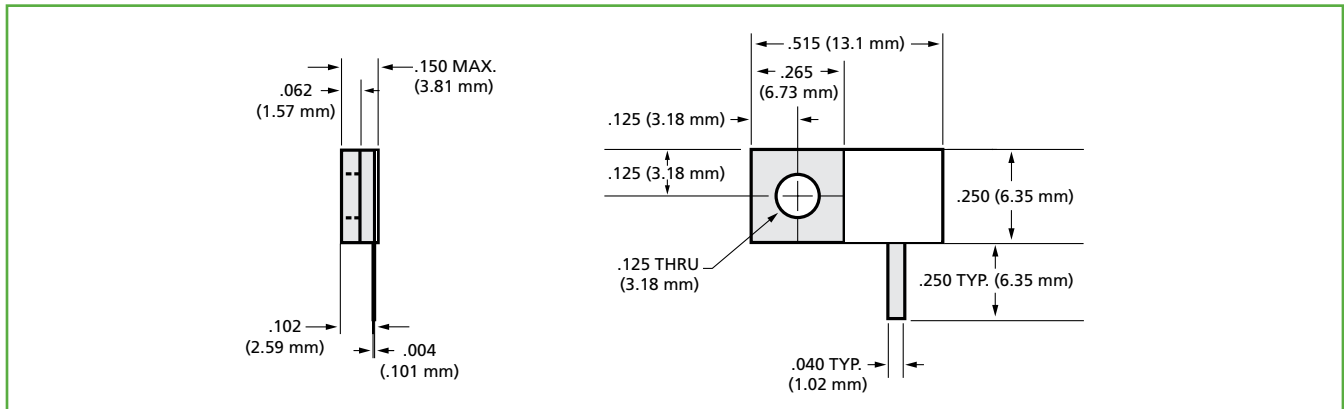
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## High Power, Flange Mount Termination

**P/N: FT10515N0050J**

### Electrical Specifications

- Nominal Impedance: 50  $\Omega$   $\pm$ 5% standard (other  $\Omega$  values available)
- Power: 60 Watts
- Frequency: DC to 6.0 GHz
- VSWR: 1.20:1 @ 4 GHz, 1.30:1 @ 6 GHz
- Operating Temperature Range: -55°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant

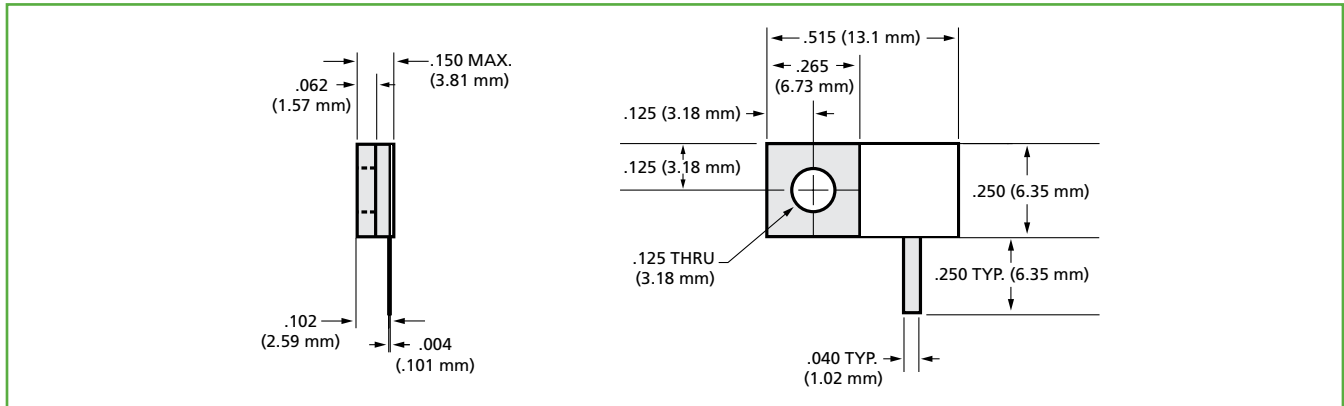


## High Power, Flange Mount Termination

**P/N: FT10515N0050J01**

### Electrical Specifications

- Nominal Impedance: 50  $\Omega$   $\pm$ 5% standard (other  $\Omega$  values available)
- Power: 100 Watts
- Frequency: DC to 2.5 GHz
- VSWR: 1.15:1
- Operating Temperature Range: -55°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant



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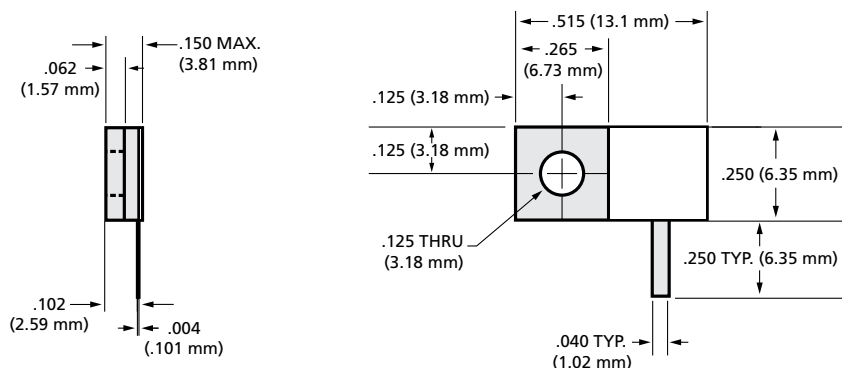
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## High Power, Flange Mount Termination

**P/N: FT10515N0050J02**

### Electrical Specifications

- **Nominal Impedance:** 50  $\Omega$   $\pm$ 5% standard (other  $\Omega$  values available)
- **Power:** 100 Watts
- **Frequency:** DC to 4 GHz
- **VSWR:** 1.20:1
- **Operating Temperature Range:** -55°C to +150°C
- **Temperature Coefficient:** <150 ppm/°C
- **Tabs:** Silver
- **Lead-Free, RoHS Compliant**

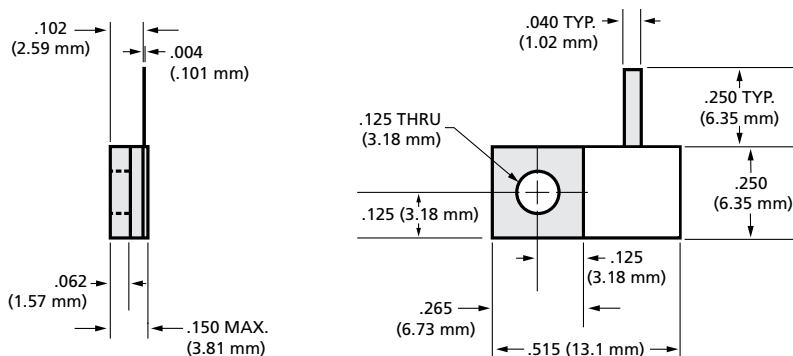


## High Power, Flange Mount Termination

**P/N: FT10516N0050J**

### Electrical Specifications

- **Nominal Impedance:** 50  $\Omega$   $\pm$ 5% standard (other  $\Omega$  values available)
- **Power:** 60 Watts
- **Frequency:** DC to 6 GHz
- **VSWR:** 1.20:1 @ 4 GHz, 1.30:1 @ 6 GHz
- **Operating Temperature Range:** -55°C to +150°C
- **Temperature Coefficient:** <150 ppm/°C
- **Tabs:** Silver
- **Lead-Free, RoHS Compliant**



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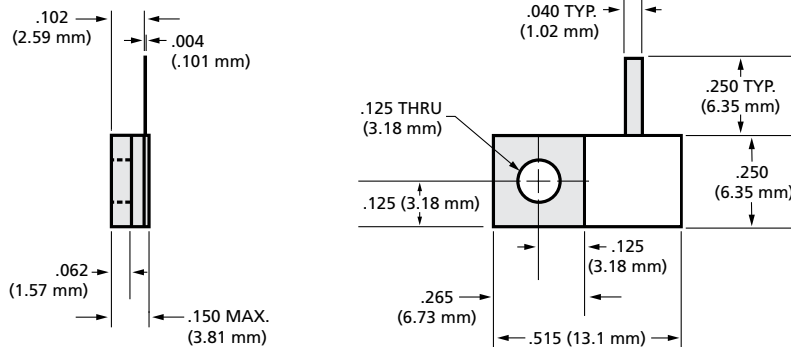
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## High Power, Flange Mount Termination

P/N: FT10516N0050J01

### Electrical Specifications

- Nominal Impedance:  $50\ \Omega \pm 5\%$  standard (other  $\Omega$  values available)
- Power: 100 Watts
- Frequency: DC to 2.5 GHz
- VSWR: 1.15:1
- Operating Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Temperature Coefficient:  $<150\ \text{ppm}/^{\circ}\text{C}$
- Tabs: Silver
- Lead-Free, RoHS Compliant

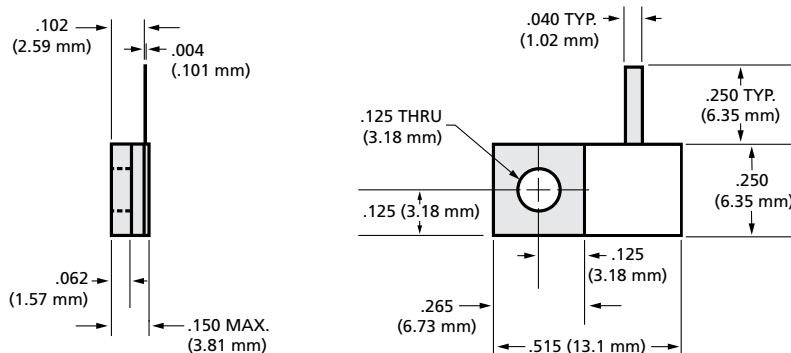


## High Power, Flange Mount Termination

P/N: FT10516N0050J02

### Electrical Specifications

- Nominal Impedance:  $50\ \Omega \pm 5\%$  standard (other  $\Omega$  values available)
- Power: 100 Watts
- Frequency: DC to 4 GHz
- VSWR: 1.20:1
- Operating Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Temperature Coefficient:  $<150\ \text{ppm}/^{\circ}\text{C}$
- Tabs: Silver
- Lead-Free, RoHS Compliant



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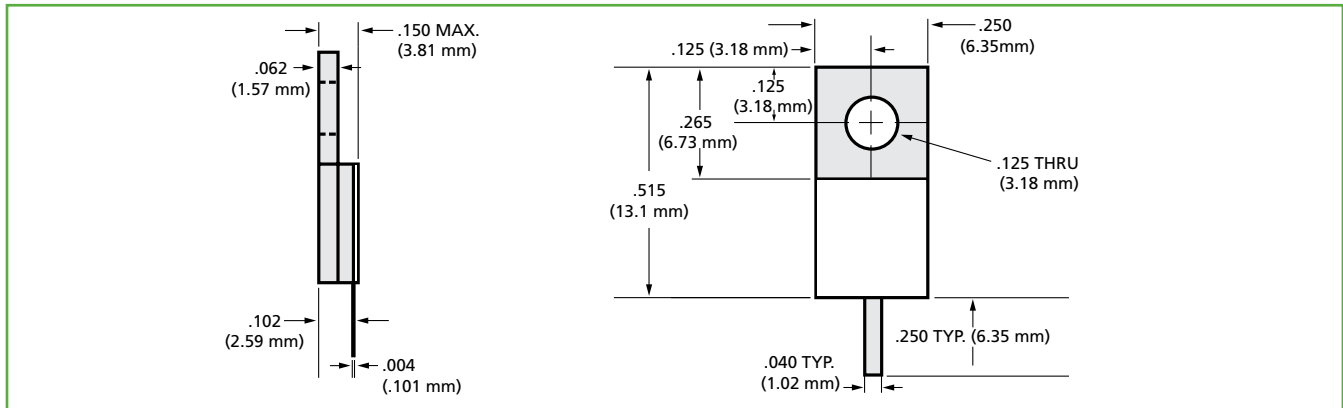
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## High Power, Flange Mount Termination

**P/N: FT10517N0050J**

### Electrical Specifications

- Nominal Impedance:  $50\ \Omega \pm 5\%$  standard (other  $\Omega$  values available)
- Power: 60 Watts
- Frequency: DC to 4 GHz
- VSWR: 1.20:1 @ 4 GHz, 1.30:1 @ 6 GHz
- Operating Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Temperature Coefficient:  $<150\ \text{ppm}/^{\circ}\text{C}$
- Tabs: Silver
- Lead-Free, RoHS Compliant

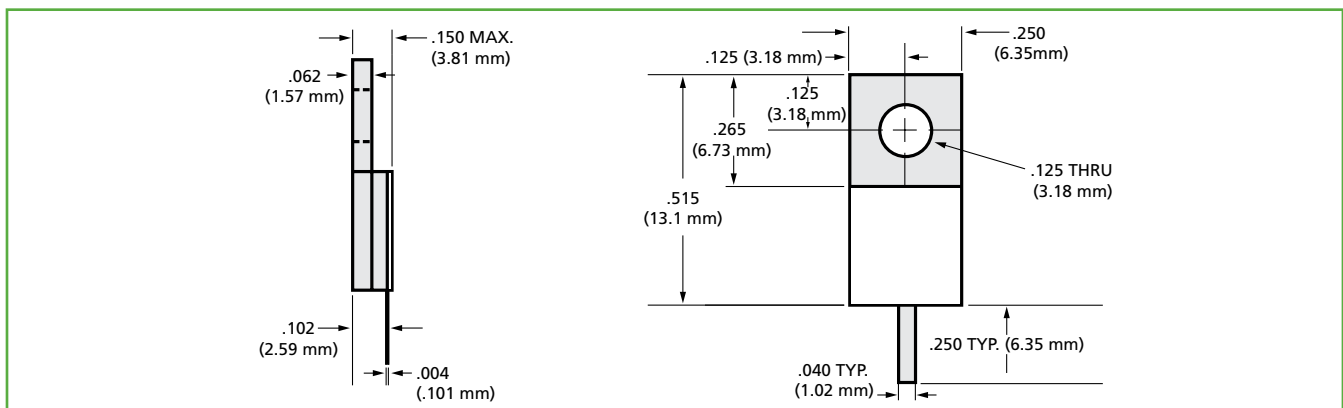


## High Power, Flange Mount Termination

**P/N: FT10517N0050J01**

### Electrical Specifications

- Nominal Impedance:  $50\ \Omega \pm 5\%$  standard (other  $\Omega$  values available)
- Power: 100 Watts
- Frequency: DC to 2.5 GHz
- VSWR: 1.15:1
- Operating Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Temperature Coefficient:  $<150\ \text{ppm}/^{\circ}\text{C}$
- Tabs: Silver
- Lead-Free, RoHS Compliant



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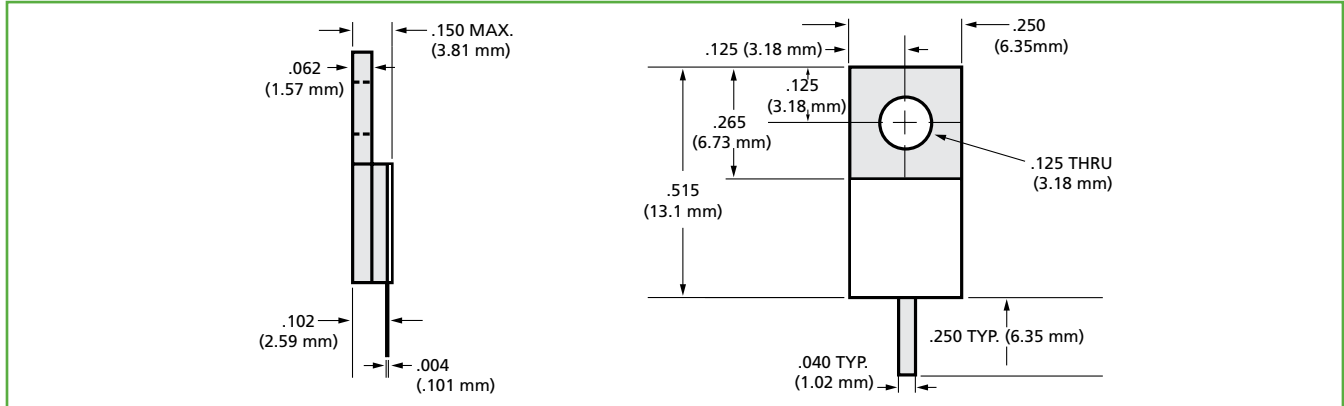
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## High Power, Flange Mount Termination

P/N: FT10517N0050J02

### Electrical Specifications

- Nominal Impedance:  $50 \Omega \pm 5\%$  standard (other  $\Omega$  values available)
- Power: 100 Watts
- Frequency: DC to 4 GHz
- VSWR: 1.20:1
- Operating Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Temperature Coefficient:  $<150 \text{ ppm}/^{\circ}\text{C}$
- Tabs: Silver
- Lead-Free, RoHS Compliant

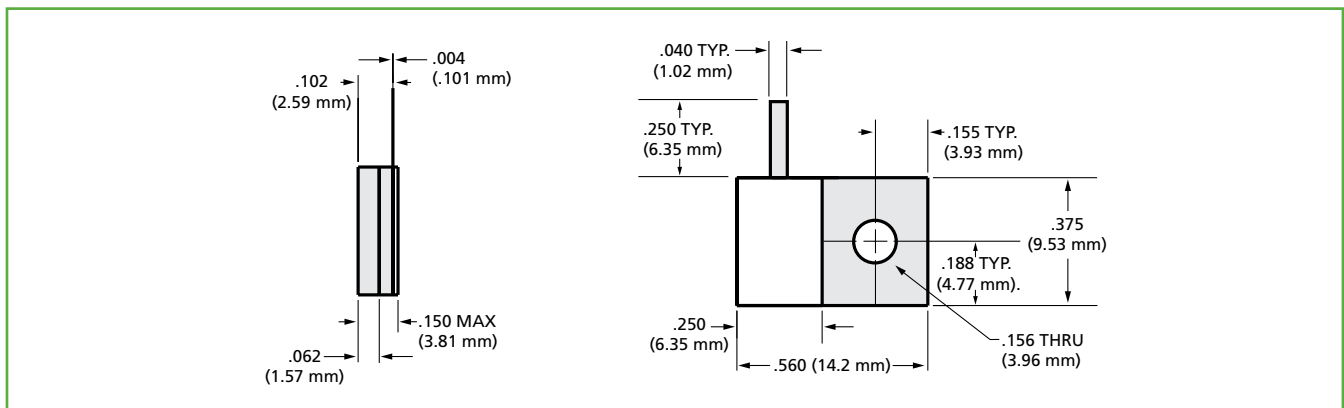


## High Power, Flange Mount Termination

P/N: FT10560N0050J

### Electrical Specifications

- Nominal Impedance:  $50 \Omega \pm 5\%$  standard (other  $\Omega$  values available)
- Power: 75 Watts
- Frequency: DC to 4 GHz
- VSWR: 1.25:1
- Operating Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Temperature Coefficient:  $<150 \text{ ppm}/^{\circ}\text{C}$
- Tabs: Silver
- Lead-Free, RoHS Compliant



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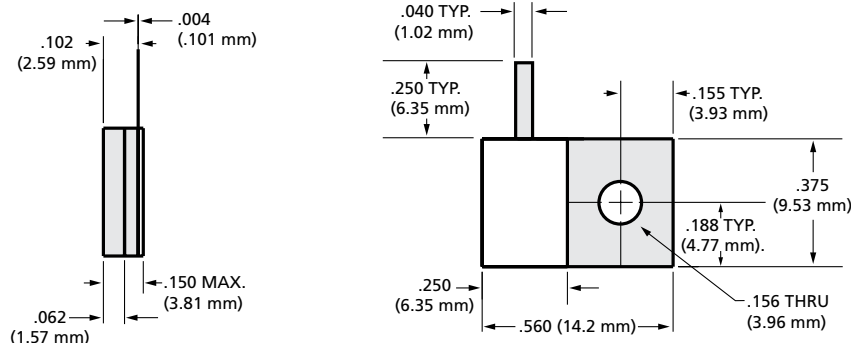


## High Power, Flange Mount Termination

P/N: FT10560N0050J01

### Electrical Specifications

- Nominal Impedance: 50  $\Omega$   $\pm$ 5% standard (other  $\Omega$  values available)
- Power: 100 Watts
- Frequency: DC to 1.1 GHz
- VSWR: 1.15:1
- Operating Temperature Range: -55°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant

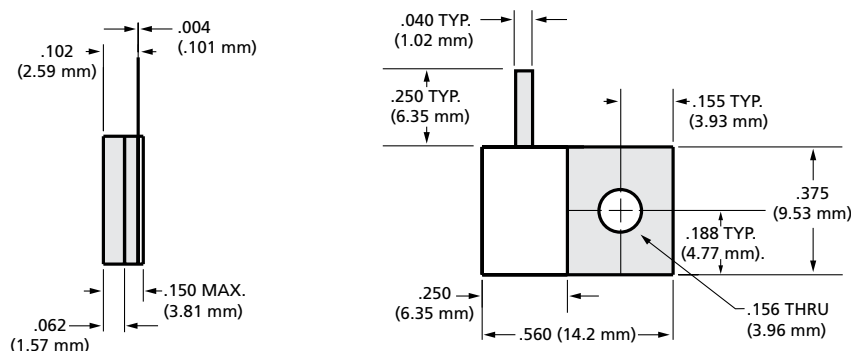


## High Power, Flange Mount Termination

P/N: FT10560N0050J02

### Electrical Specifications

- Nominal Impedance: 50  $\Omega$   $\pm$ 5% standard (other  $\Omega$  values available)
- Power: 100 Watts
- Frequency: DC to 2 GHz
- VSWR: 1.20:1
- Operating Temperature Range: -55°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant



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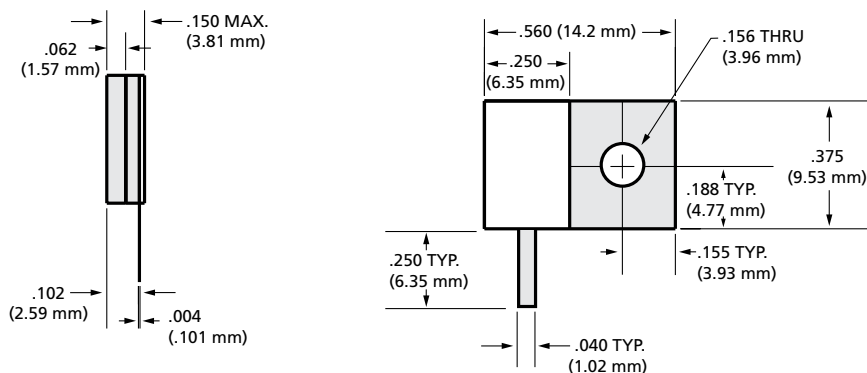
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## High Power, Flange Mount Termination

P/N: FT10561N0050J

### Electrical Specifications

- Nominal Impedance:  $50\ \Omega \pm 5\%$  standard (other  $\Omega$  values available)
- Power: 75 Watts
- Frequency: DC to 4.0 GHz
- VSWR: 1.25:1
- Operating Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Temperature Coefficient:  $<150\ \text{ppm}/^{\circ}\text{C}$
- Tabs: Silver
- Lead-Free, RoHS Compliant

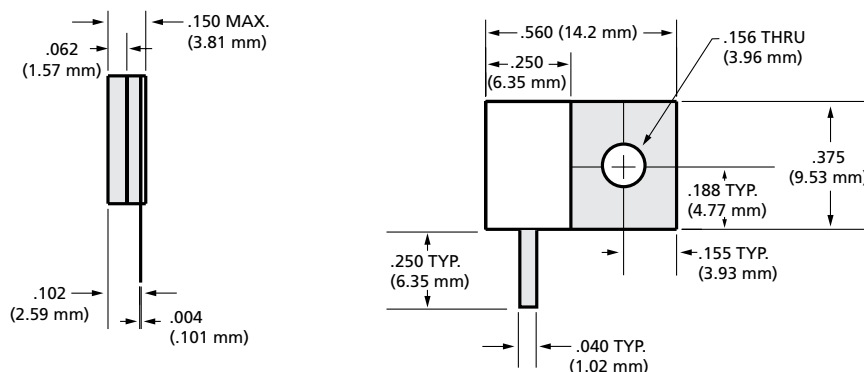


## High Power, Flange Mount Termination

P/N: FT10561N0050J01

### Electrical Specifications

- Nominal Impedance:  $50\ \Omega \pm 5\%$  standard (other  $\Omega$  values available)
- Power: 100 Watts
- Frequency: DC to 1.1 GHz
- VSWR: 1.15:1
- Operating Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Temperature Coefficient:  $<150\ \text{ppm}/^{\circ}\text{C}$
- Tabs: Silver
- Lead-Free, RoHS Compliant



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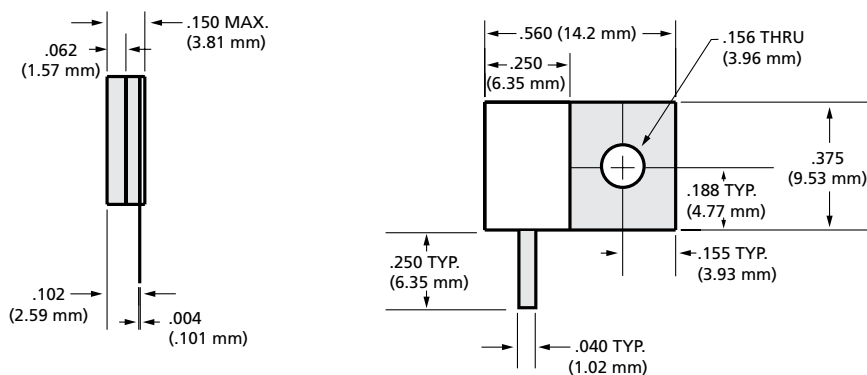
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## High Power, Flange Mount Termination

**P/N: FT10561N0050J02**

### Electrical Specifications

- **Nominal Impedance:** 50  $\Omega$   $\pm$ 5% standard (other  $\Omega$  values available)
- **Power:** 100 Watts
- **Frequency:** DC to 2 GHz
- **VSWR:** 1.20:1
- **Operating Temperature Range:** -55°C to +150°C
- **Temperature Coefficient:** <150 ppm/°C
- **Tabs:** Silver
- **Lead-Free, RoHS Compliant**

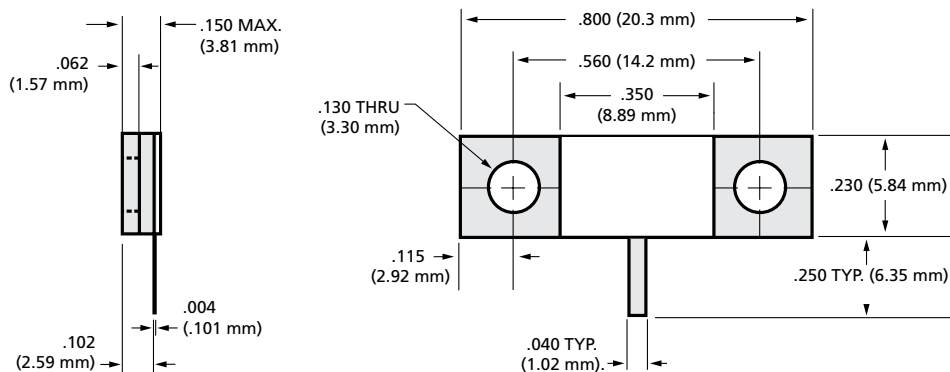


## High Power, Flange Mount Termination

**P/N: FT10800N0050J**

### Electrical Specifications

- **Nominal Impedance:** 50  $\Omega$   $\pm$ 5% standard (other  $\Omega$  values available)
- **Power:** 50 Watts
- **Frequency:** DC to 6 GHz
- **VSWR:** 1.10:1 @ 4.5 GHz, 1.18:1 @ 6.0GHz
- **Operating Temperature Range:** -55°C to +150°C
- **Tabs:** Silver
- **Lead-Free, RoHS Compliant**



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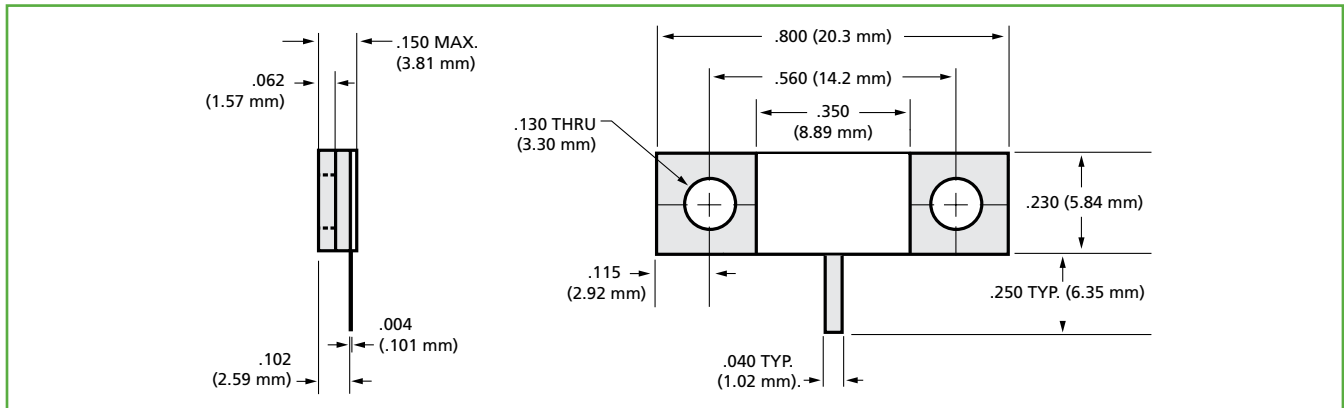
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## High Power, Flange Mount Termination

**P/N: FT10800N0050J02**

### Electrical Specifications

- Nominal Impedance: 50  $\Omega$   $\pm$ 5% standard (other  $\Omega$  values available)
- Power: 100 Watts
- Frequency: DC to 6 GHz
- VSWR: 1.10:1 @ 4.5 GHz, 1.20:1 @ 6.0GHz
- Operating Temperature Range: -55°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant

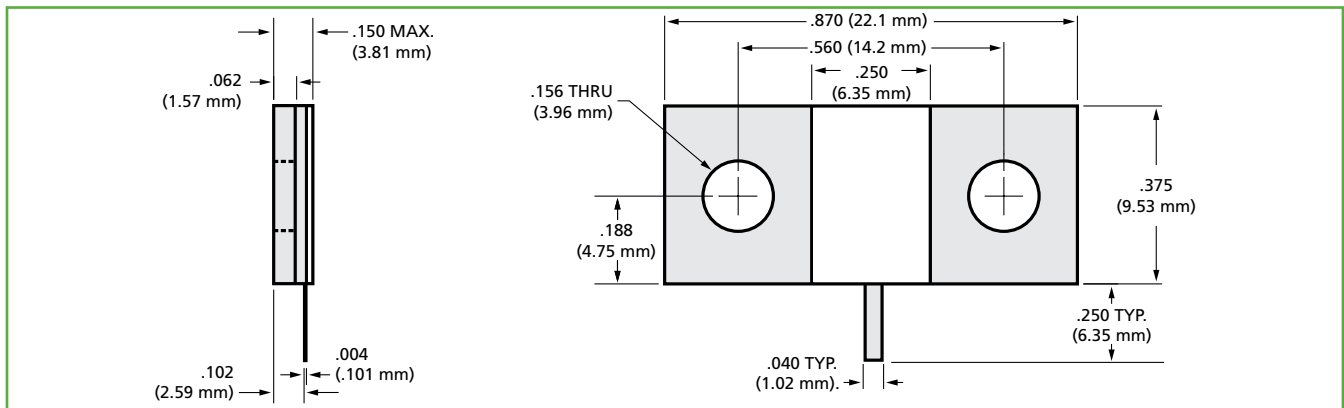


## High Power, Flange Mount Termination

**P/N: FT10870N0050J**

### Electrical Specifications

- Nominal Impedance: 50  $\Omega$   $\pm$ 5% standard (other  $\Omega$  values available)
- Power: 100 Watts
- Frequency: DC to 4.0 GHz
- VSWR: 1.20:1
- Operating Temperature Range: -55°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant



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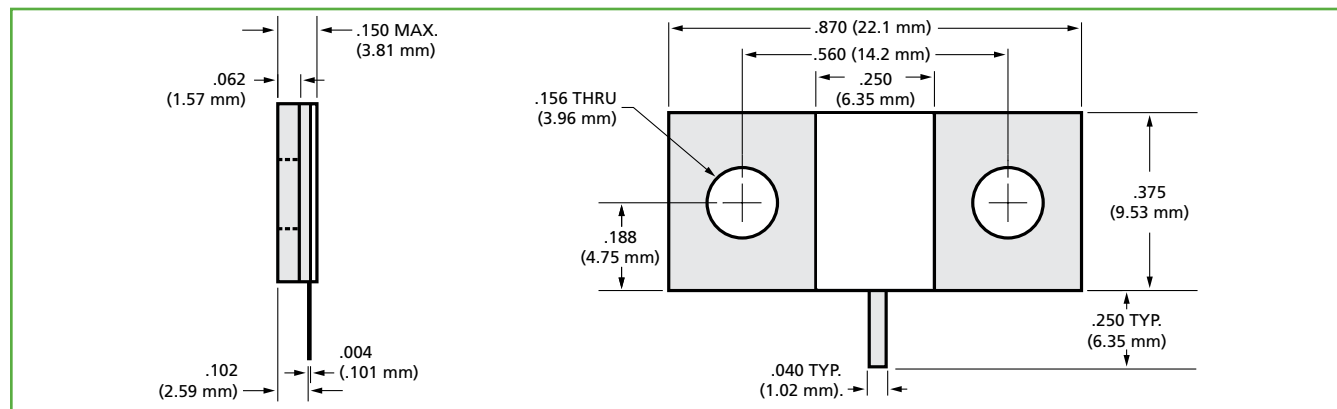
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## High Power, Flange Mount Termination

P/N: FT10870N0050J01

### Electrical Specifications

- Nominal Impedance:  $50\ \Omega \pm 5\%$  standard (other  $\Omega$  values available)
- Power: 150 Watts
- Frequency: DC to 1.1 GHz
- VSWR: 1.15:1
- Operating Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Temperature Coefficient:  $<150\ \text{ppm}/^{\circ}\text{C}$
- Tabs: Silver
- Lead-Free, RoHS Compliant

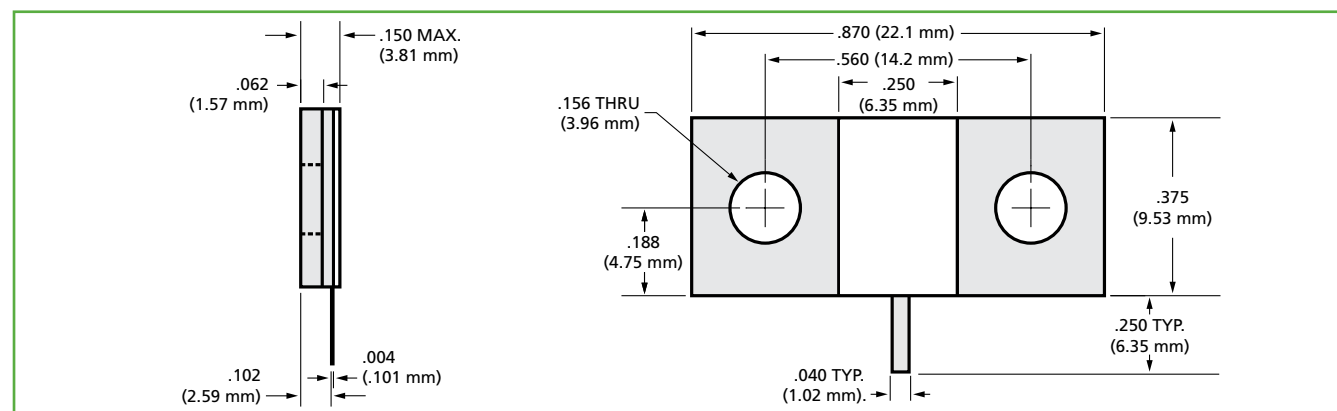


## High Power, Flange Mount Termination

P/N: FT10870N0050J02

### Electrical Specifications

- Nominal Impedance:  $50\ \Omega \pm 5\%$  standard (other  $\Omega$  values available)
- Power: 150 Watts
- Frequency: DC to 4 GHz
- VSWR: 1.20:1
- Operating Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Temperature Coefficient:  $<150\ \text{ppm}/^{\circ}\text{C}$
- Tabs: Silver
- Lead-Free, RoHS Compliant



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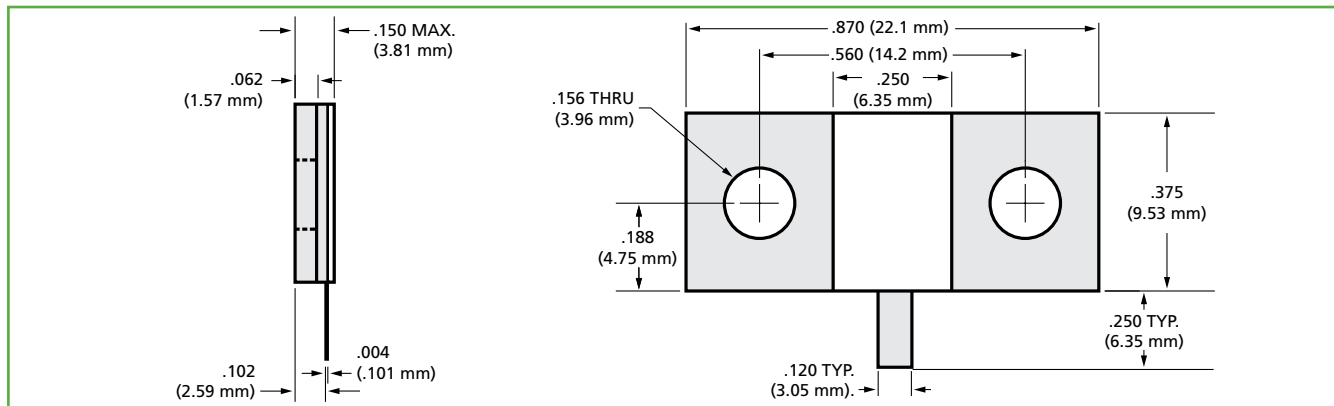
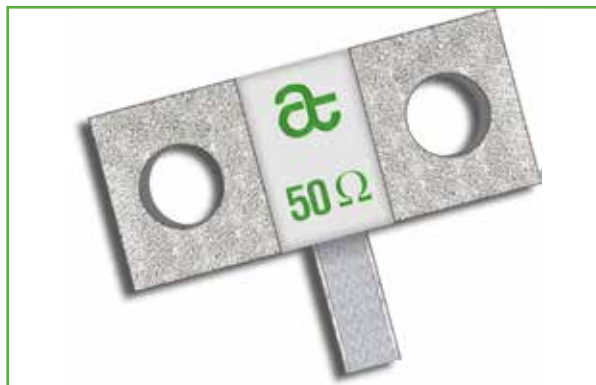
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## High Power, Flange Mount Termination

**P/N: FT10870N0050J03**

### Electrical Specifications

- **Nominal Impedance:** 50  $\Omega$   $\pm$ 5% standard (other  $\Omega$  values available)
- **Power:** 150 Watts
- **Frequency:** DC to 4 GHz
- **VSWR:** 1.25:1
- **Operating Temperature Range:** -55°C to +150°C
- **Temperature Coefficient:** <150 ppm/°C
- **Tabs:** Silver
- **Lead-Free, RoHS Compliant**

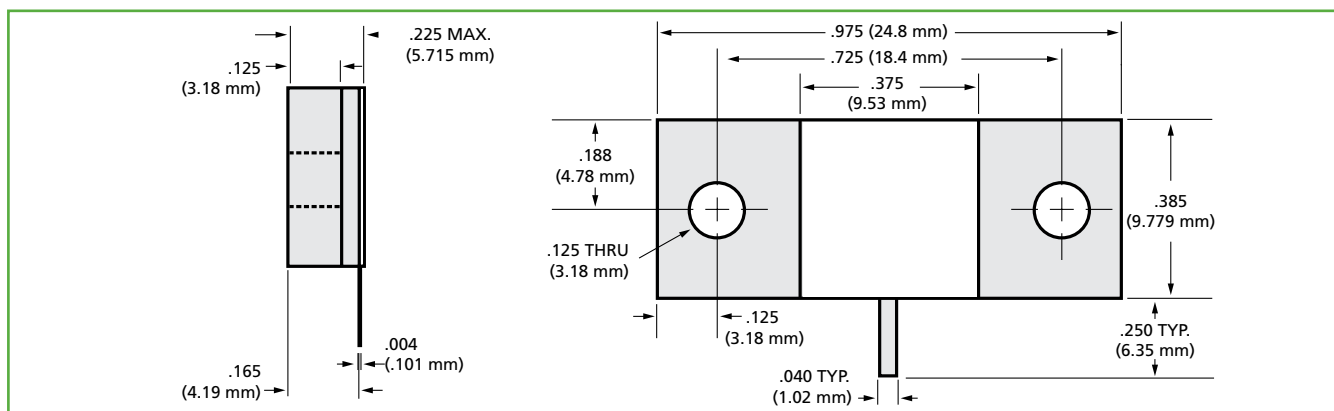


## High Power, Flange Mount Termination

**P/N: FT10975N0050JBK**

### Electrical Specifications

- **Nominal Impedance:** 50  $\Omega$   $\pm$ 5% standard (other  $\Omega$  values available)
- **Power:** 200 Watts
- **Frequency:** DC to 2.2 GHz
- **VSWR:** 1.20:1 @ 2 GHz, 1.30:1 @ 2.2 GHz
- **Operating Temperature Range:** -55°C to +150°C
- **Temperature Coefficient:** <150 ppm/°C
- **Tabs:** Silver
- **Lead-Free, RoHS Compliant**



For Part Number Code, see page 18.

**A M E R I C A N   T E C H N I C A L   C E R A M I C S**

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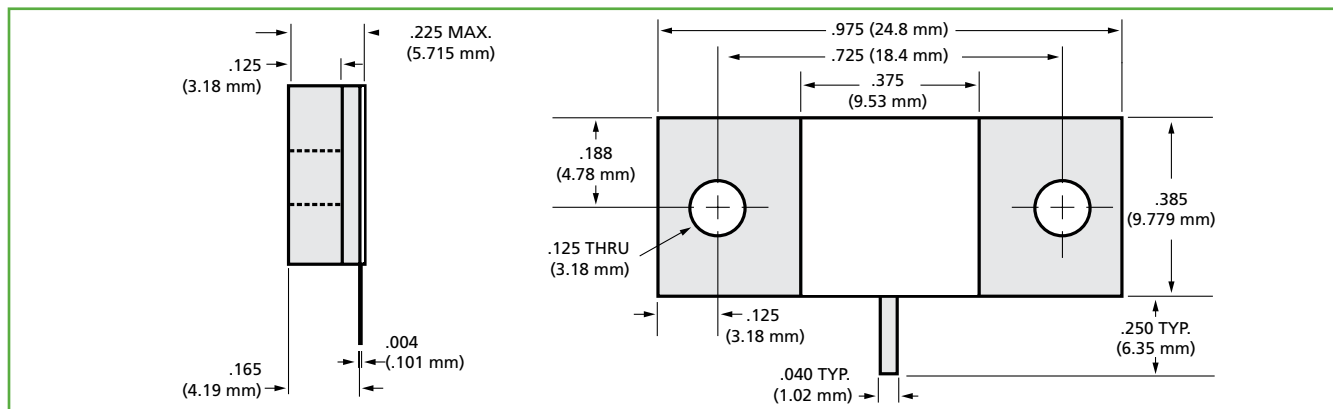
ATC Asia  
sales@atceramics-asia.com

## High Power, Flange Mount Termination

P/N: FT10975N0050J01

### Electrical Specifications

- Nominal Impedance:  $50\ \Omega \pm 5\%$  standard (other  $\Omega$  values available)
- Power: 250 Watts
- Frequency: DC to 1.0 GHz
- VSWR: 1.20:1
- Operating Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Temperature Coefficient:  $<150\ \text{ppm}/^{\circ}\text{C}$
- Tabs: Silver
- Lead-Free, RoHS Compliant

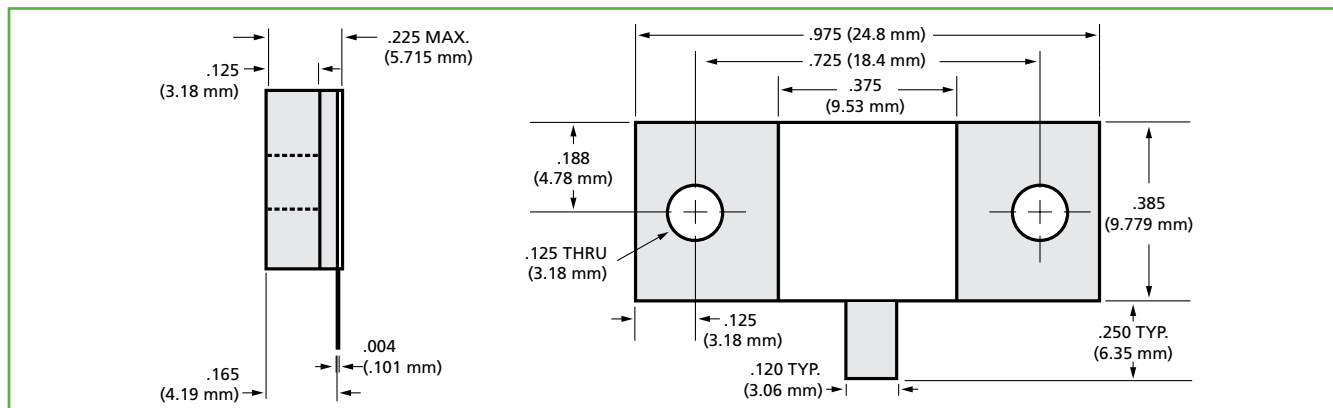


## High Power, Flange Mount Termination

P/N: FT10975N0050J03

### Electrical Specifications

- Nominal Impedance:  $50\ \Omega \pm 5\%$  standard (other  $\Omega$  values available)
- Power: 250 Watts
- Frequency: DC to 1.0 GHz
- VSWR: 1.20:1
- Operating Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Temperature Coefficient:  $\pm 150\ \text{ppm}/^{\circ}\text{C}$
- Tabs: Silver
- Lead-Free, RoHS Compliant



For Part Number Code, see page 18.

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