

## Terminations

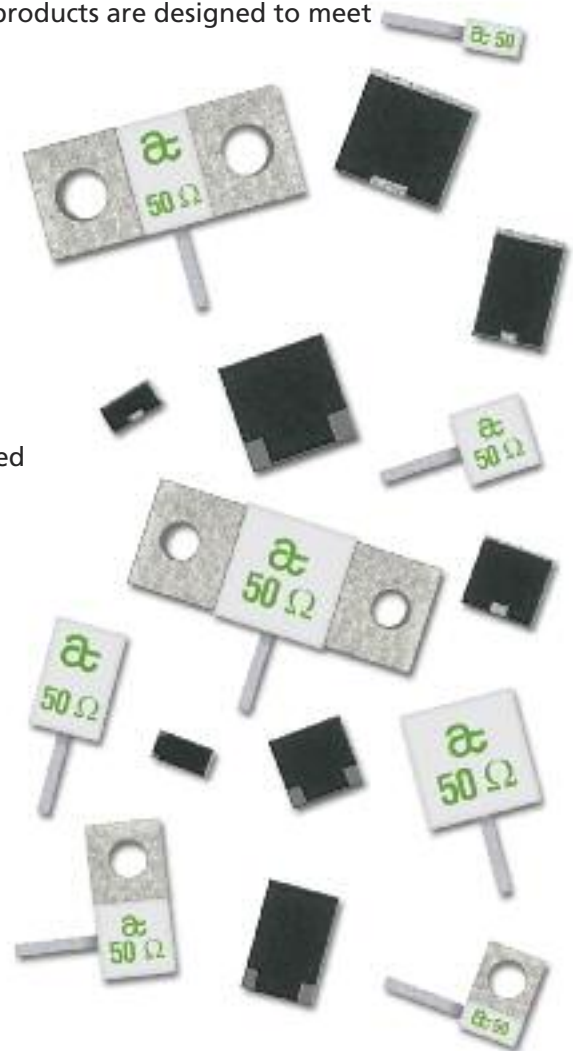
American Technical Ceramics introduces its complete line of High Power Termination Products. All Products are designed and manufactured at our ISO 9001 Facilities. All products are designed to meet MIL-PRF-55342 and ATC qualification procedure JP625-4102.

### Electrical Specifications

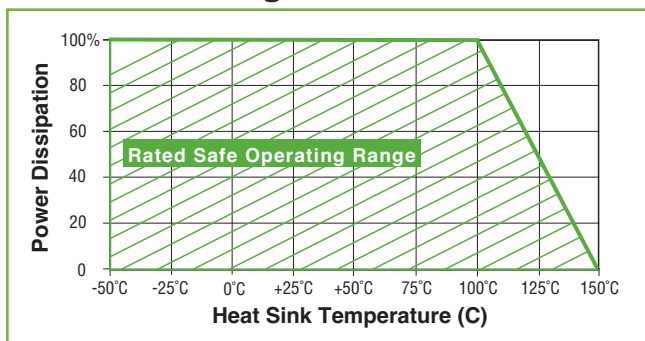
- **Resistance:** 50  $\Omega$  standard (10  $\Omega$  - 200  $\Omega$  available)
- **Resistance Tolerance:**  $\pm 5\%$  standard ( $\pm 2\%$  available)
- **Power:** 10 Watts through 250 Watts
- **Operating Temperature Range:**  $-55^{\circ}\text{C}$  -  $+150^{\circ}\text{C}$
- **Temperature Coefficient:**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

### Mechanical Specifications

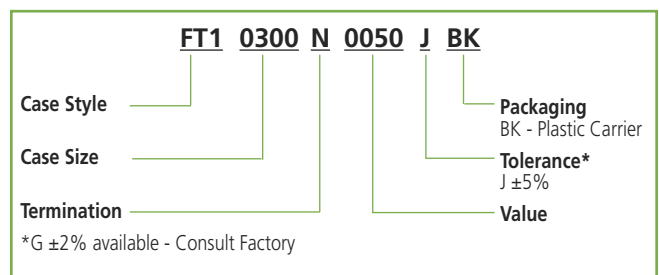
- **Package:** Surface Mount Chips, Chips, Leaded Chips, Flanged
- **Substrate Material:** Aluminum Nitride
- **Process:** Thin Film
- **Resistive Material:** Tantalum
- **Terminals:** Silver
- **Cover:** Alumina
- **Mounting Flange:** 100% Cu, Ni or Ag Plated
- **Mechanical Tolerance:**  $\pm .005$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



## Power Derating



## ATC Flange Mount Terminations Part Number Code



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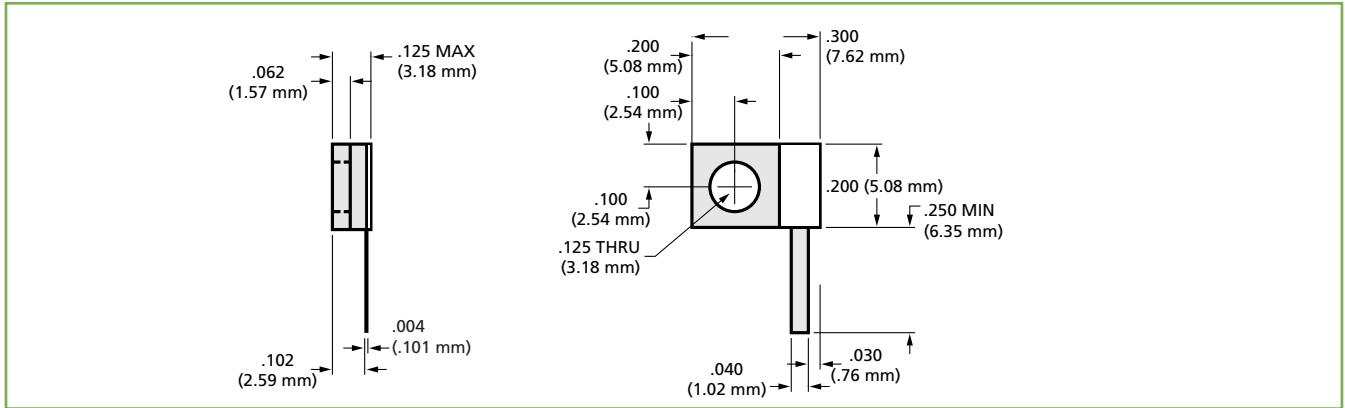
Excerpt from ATC # 001-944; Rev. U, 11/14

## High Power, Flange Mount Termination

**P/N: FT10300N0050J**

### Electrical Specifications

- Nominal Impedance: 50 Ω ±5% standard (other Ω 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

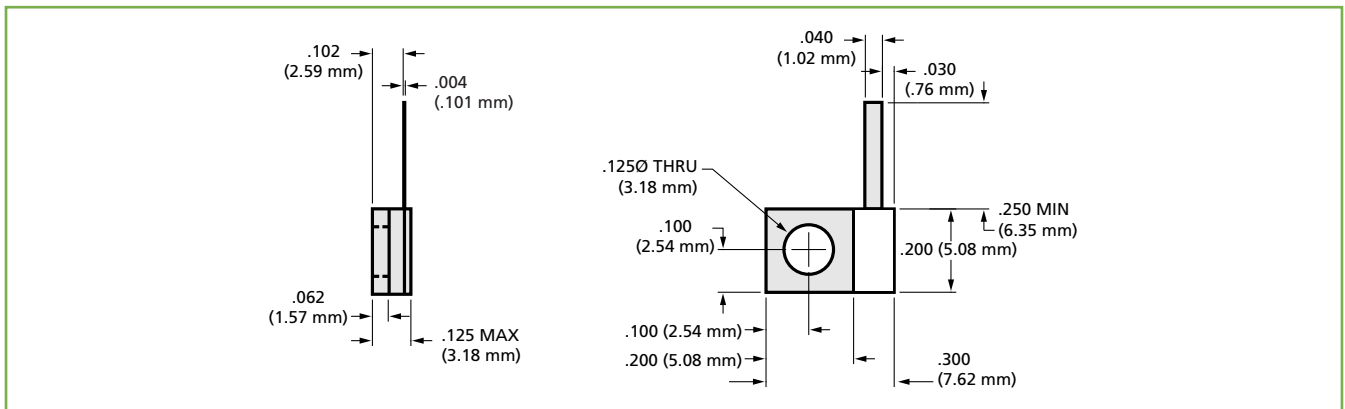


## High Power, Flange Mount Termination

**P/N: FT10301N0050J**

### Electrical Specifications

- Nominal Impedance: 50 Ω ±5% standard (other Ω 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



For Part Number Code, see page 1.

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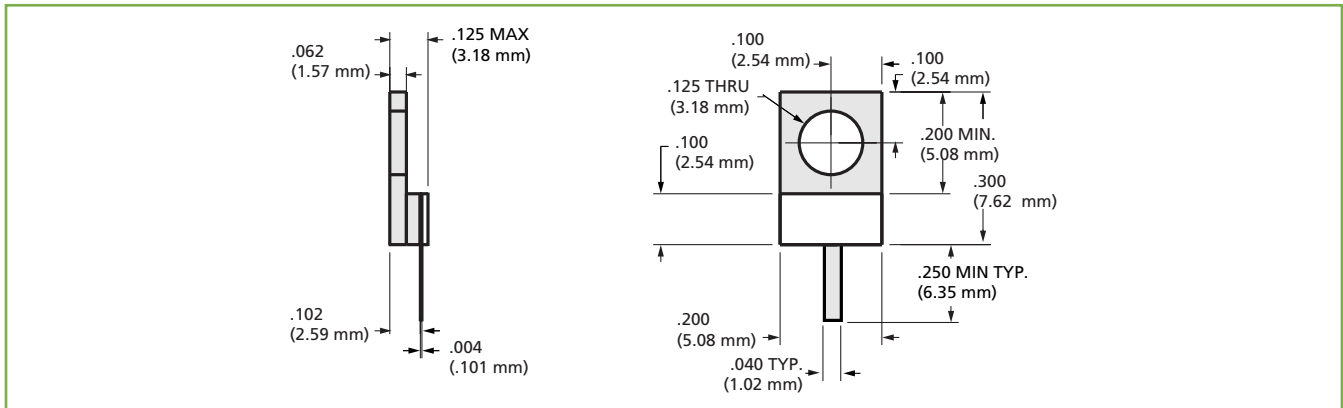
ATC Asia  
sales@atceramics-asia.com

## 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

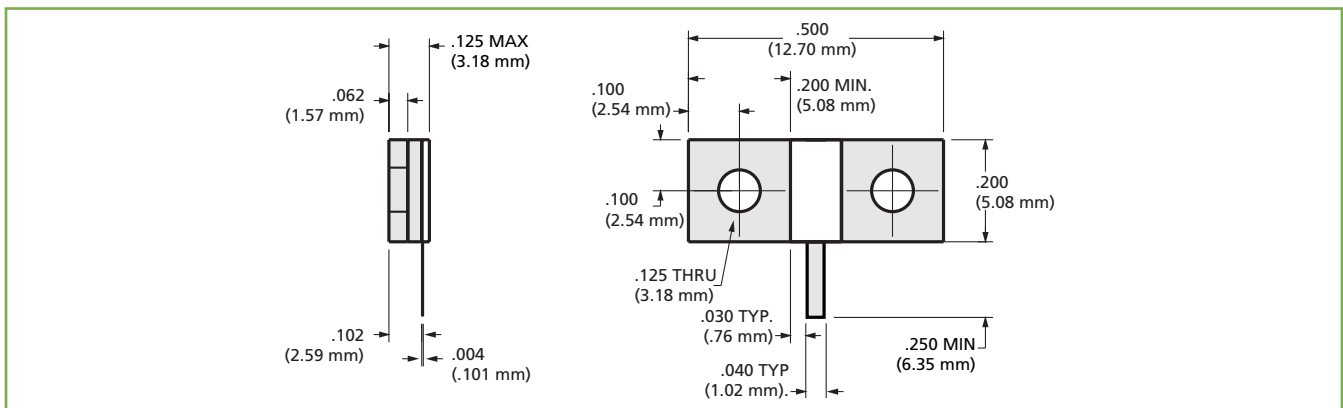


## High Power, Flange Mount Termination

**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



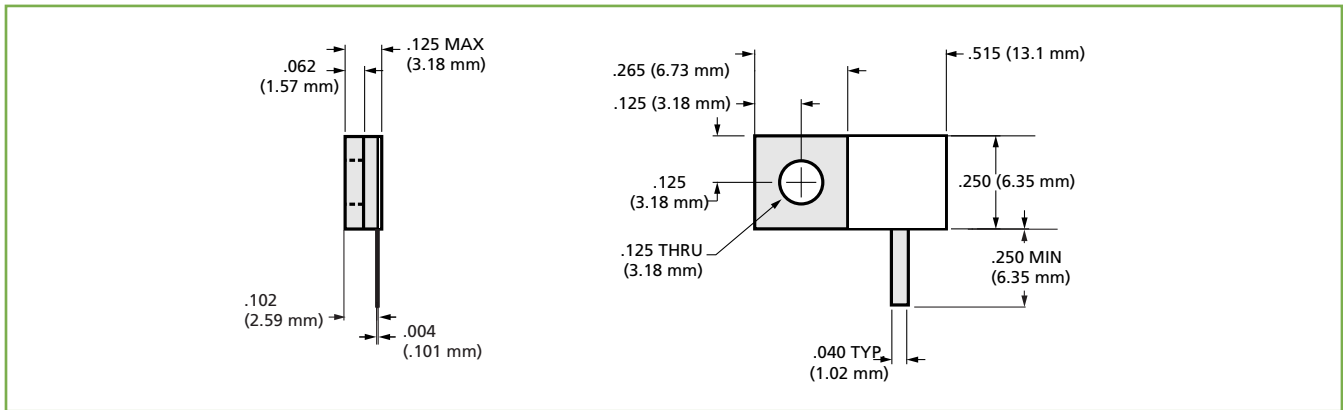
For Part Number Code, see page 1.

## 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**

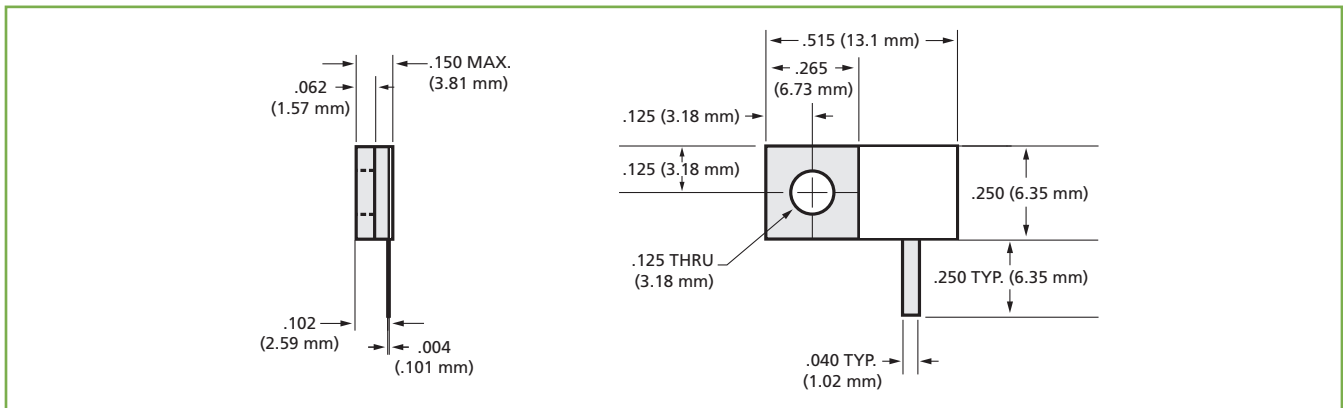


## High Power, Flange Mount Termination

**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**



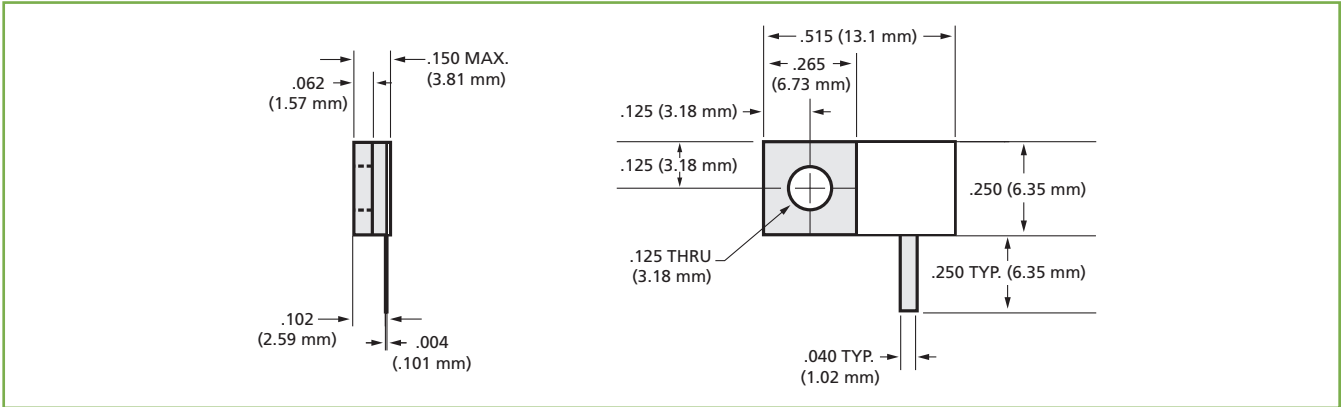
For Part Number Code, see page 1.

## 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

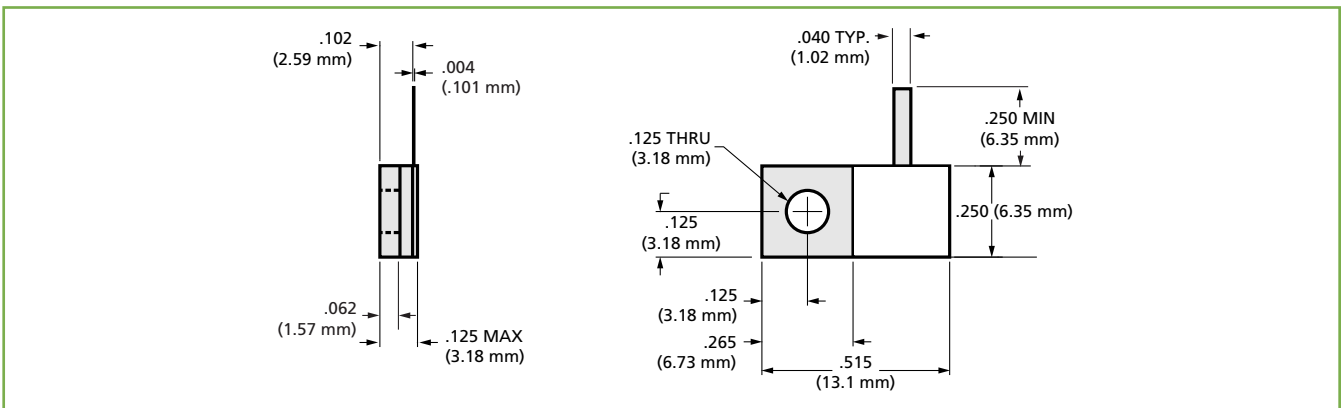


## High Power, Flange Mount Termination

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



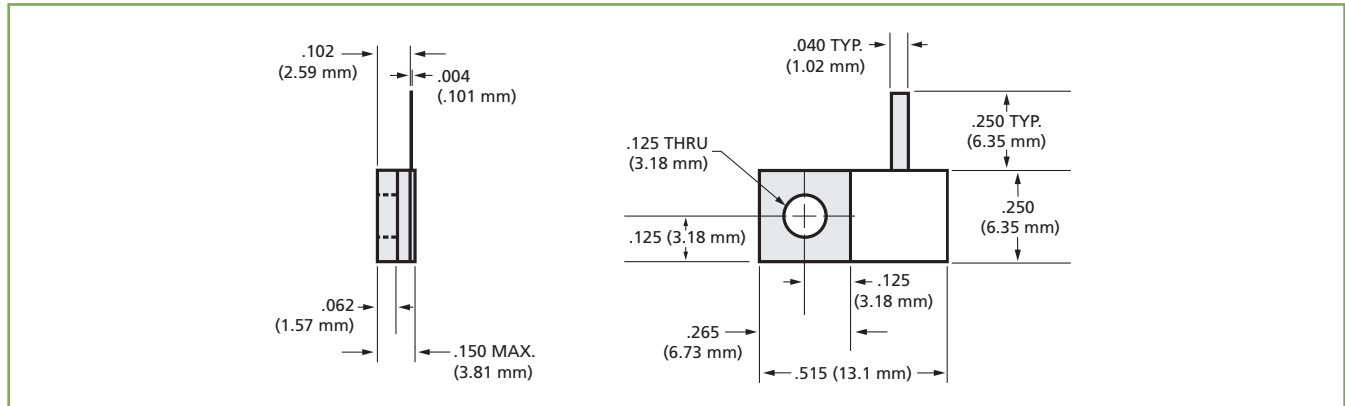
For Part Number Code, see page 1.

## 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°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant

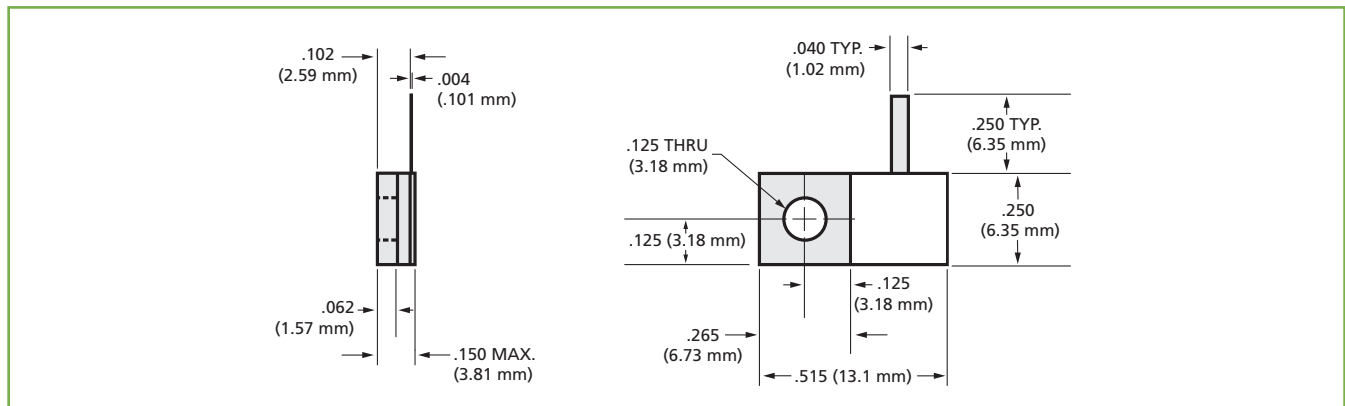


## High Power, Flange Mount Termination

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°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant



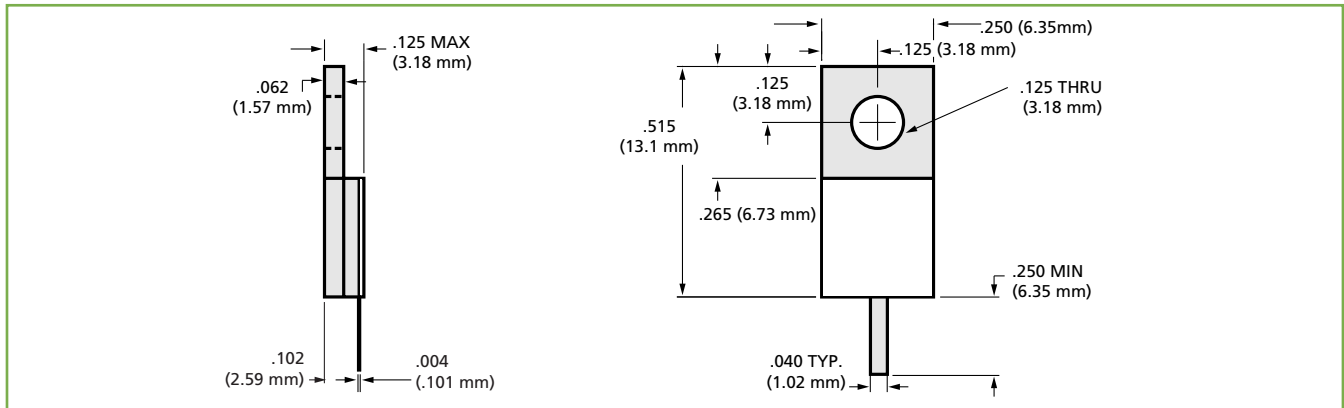
For Part Number Code, see page 1.

## 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°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant

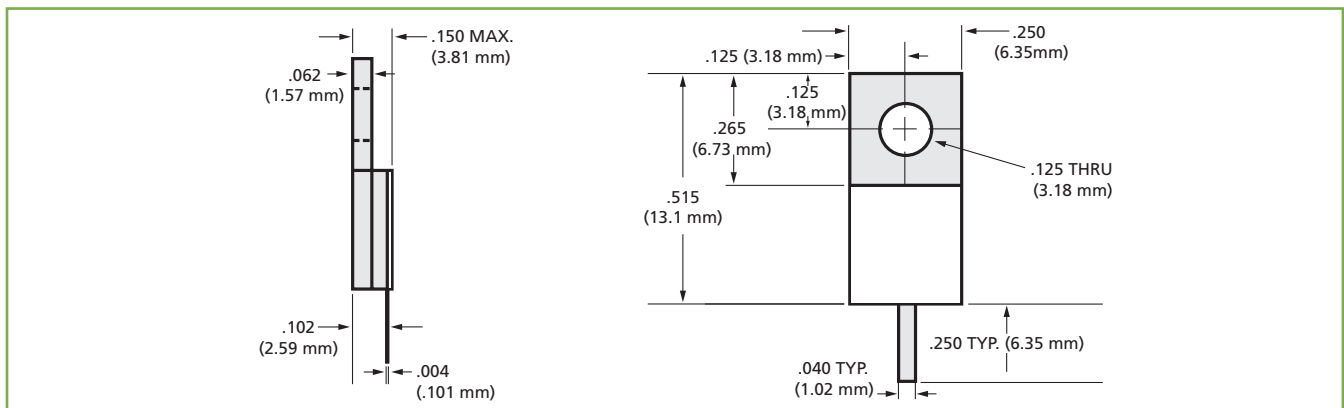


## High Power, Flange Mount Termination

**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°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant



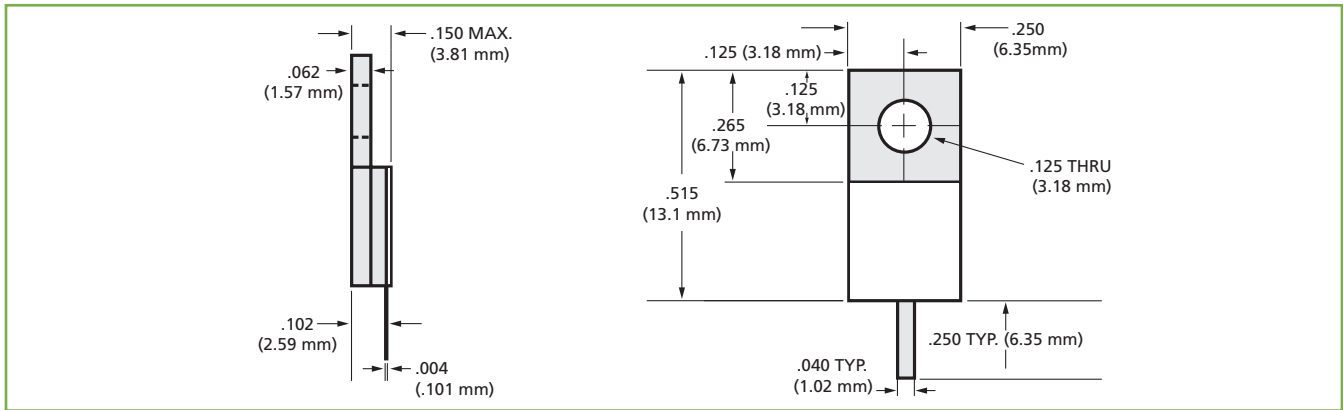
For Part Number Code, see page 1.

## 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°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant

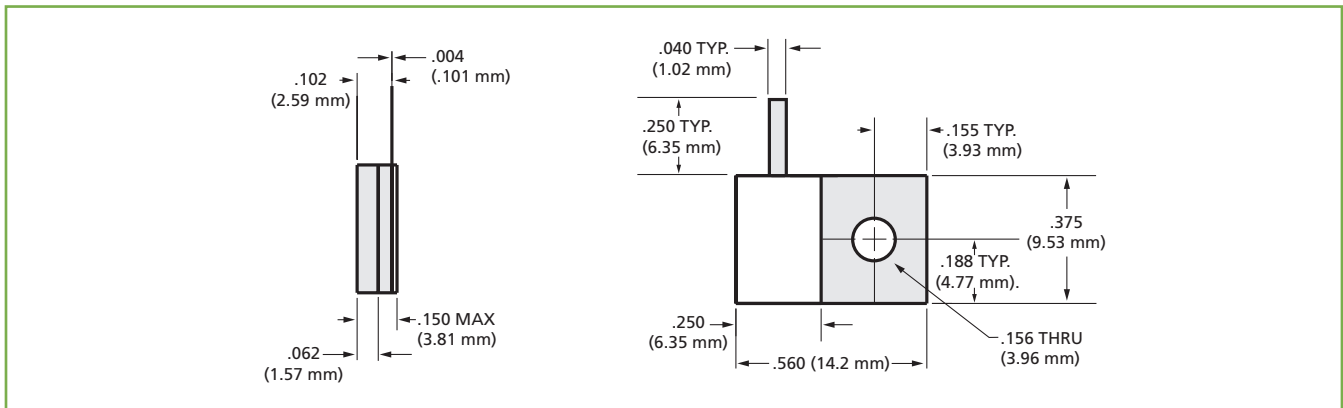


## High Power, Flange Mount Termination

**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°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant



For Part Number Code, see page 1.

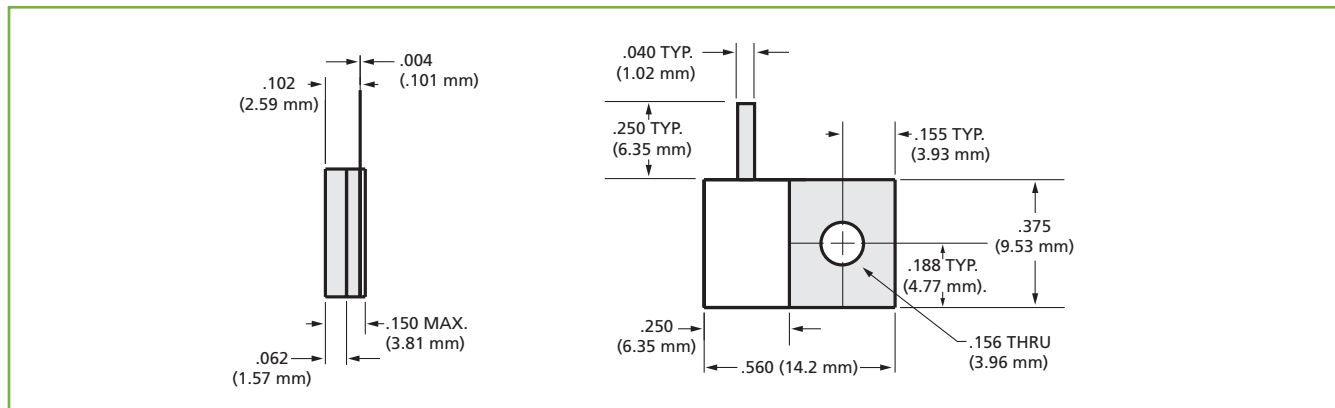


## High Power, Flange Mount Termination

**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

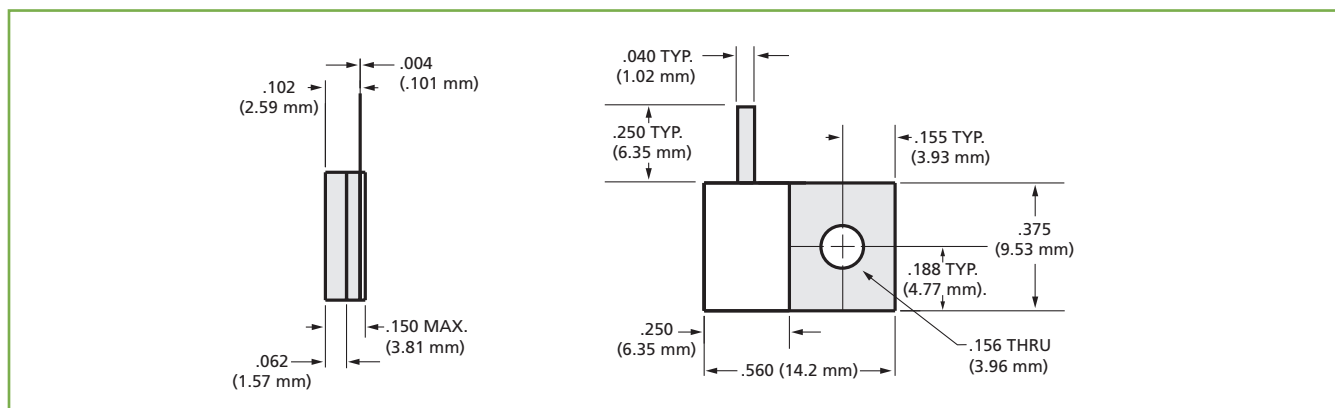


## High Power, Flange Mount Termination

**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



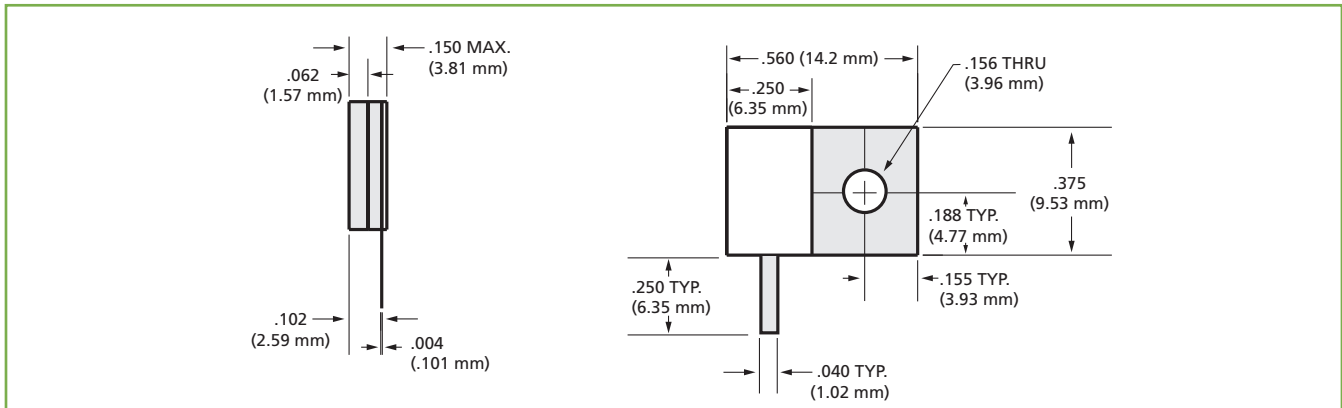
For Part Number Code, see page 1.

## 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°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant

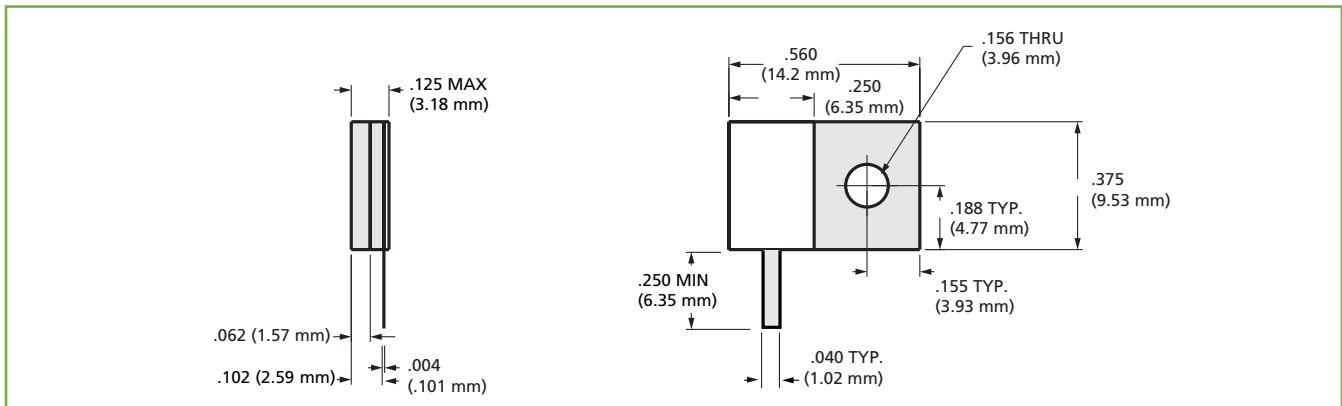


## High Power, Flange Mount Termination

**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°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant



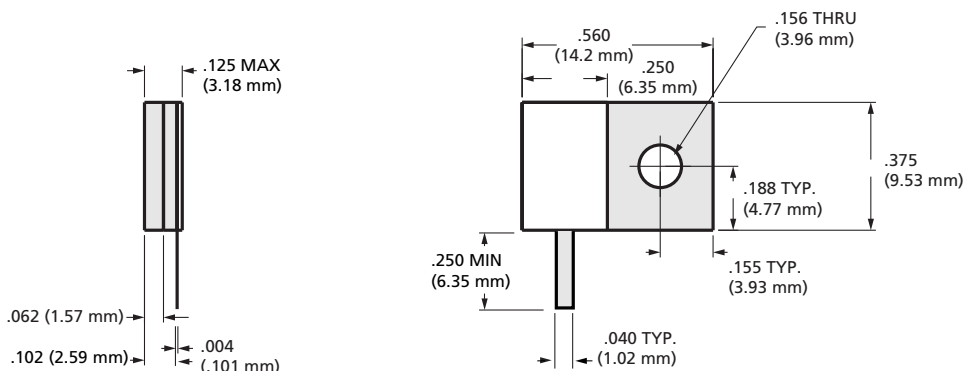
For Part Number Code, see page 1.

## 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

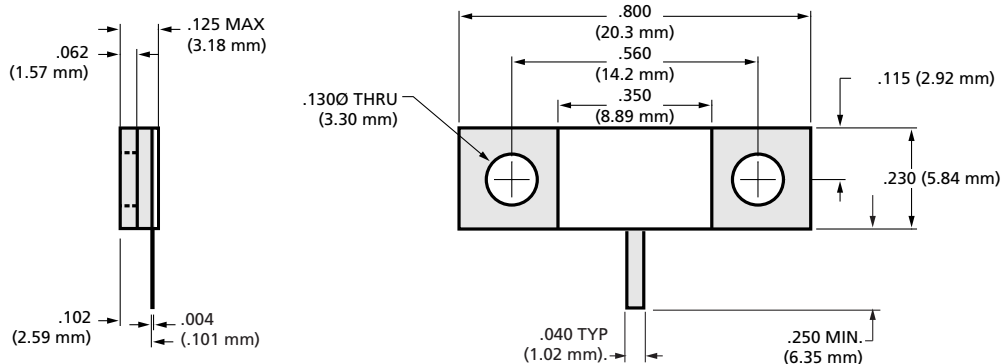


## High Power, Flange Mount Termination

**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



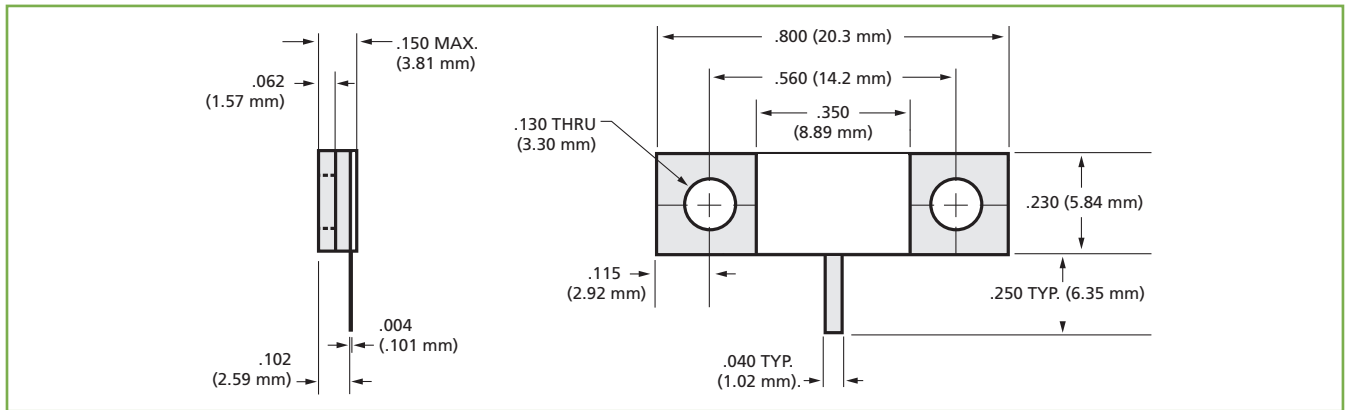
For Part Number Code, see page 1.

## High Power, Flange Mount Termination

**P/N: FT10800N0050J02**

### Electrical Specifications

- Nominal Impedance: 50 Ω ±5% standard (other Ω 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

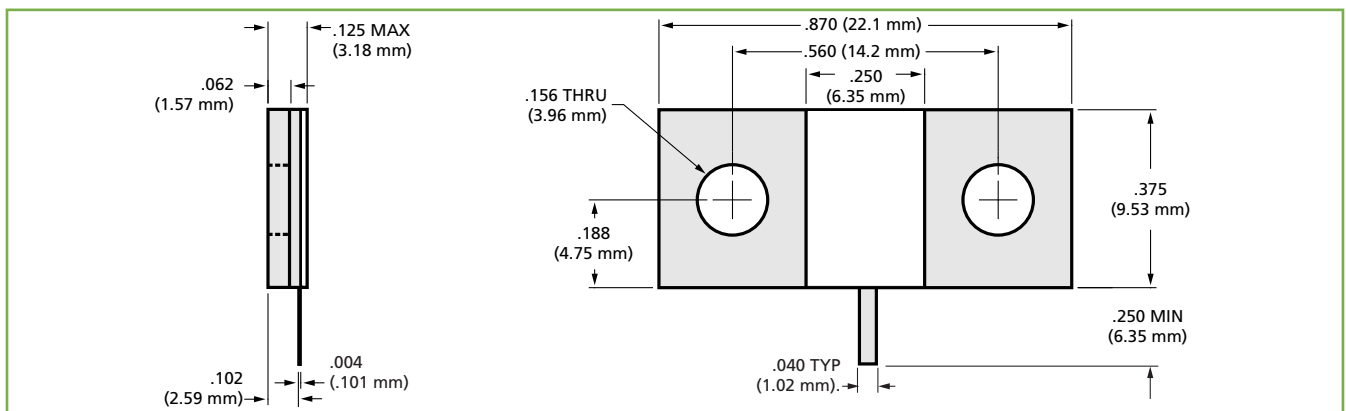


## High Power, Flange Mount Termination

**P/N: FT10870N0050J**

### Electrical Specifications

- Nominal Impedance: 50 Ω ±5% standard (other Ω 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



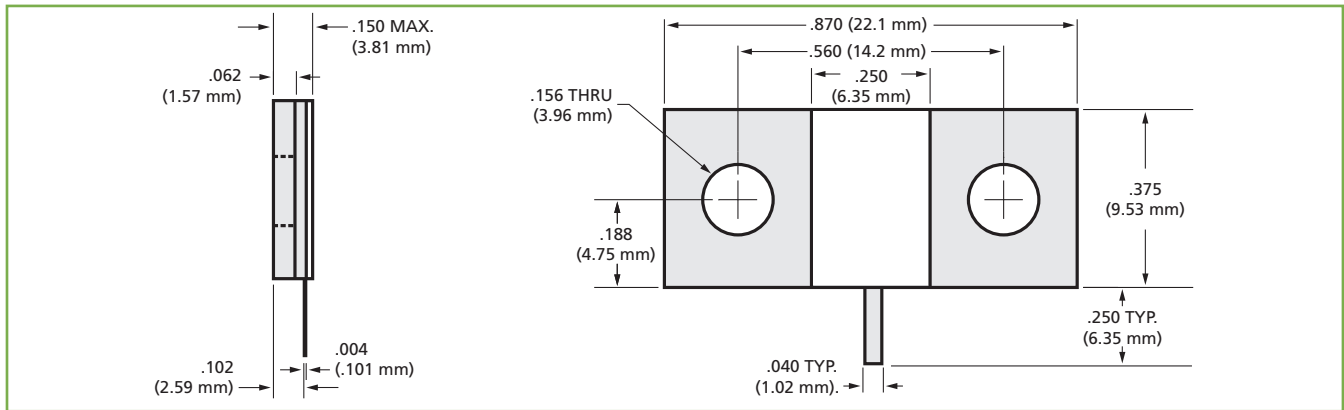
For Part Number Code, see page 1.

## 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°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant

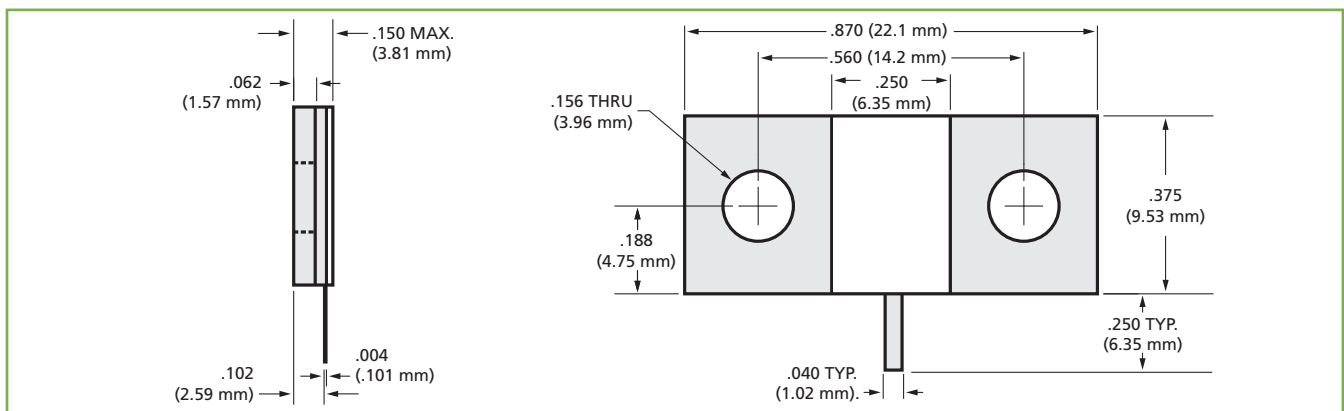


## High Power, Flange Mount Termination

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°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant



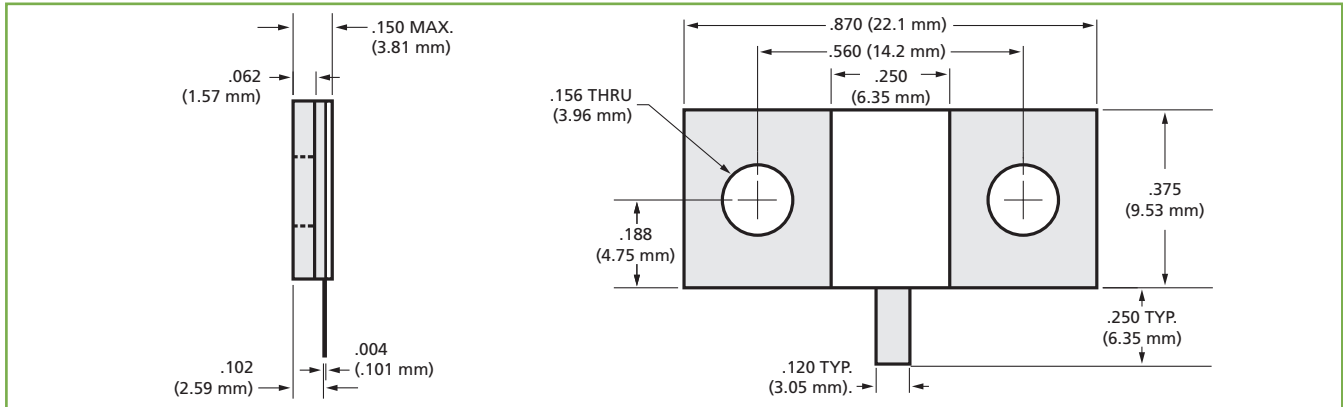
For Part Number Code, see page 1.

## High Power, Flange Mount Termination

**P/N: FT10870N0050J03**

### Electrical Specifications

- Nominal Impedance: 50 Ω ±5% standard (other Ω 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

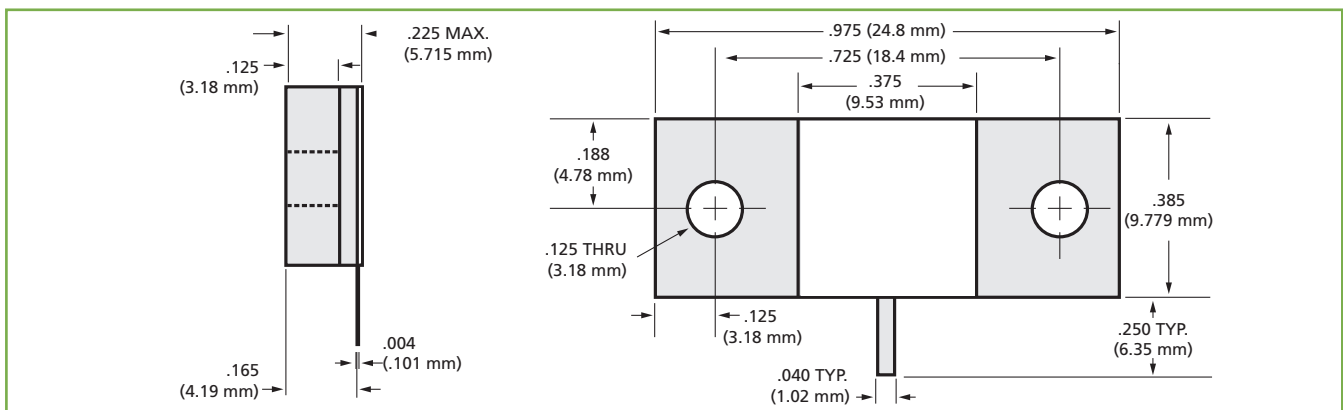


## High Power, Flange Mount Termination

**P/N: FT10975N0050JBK**

### Electrical Specifications

- Nominal Impedance: 50 Ω ±5% standard (other Ω 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 1.

**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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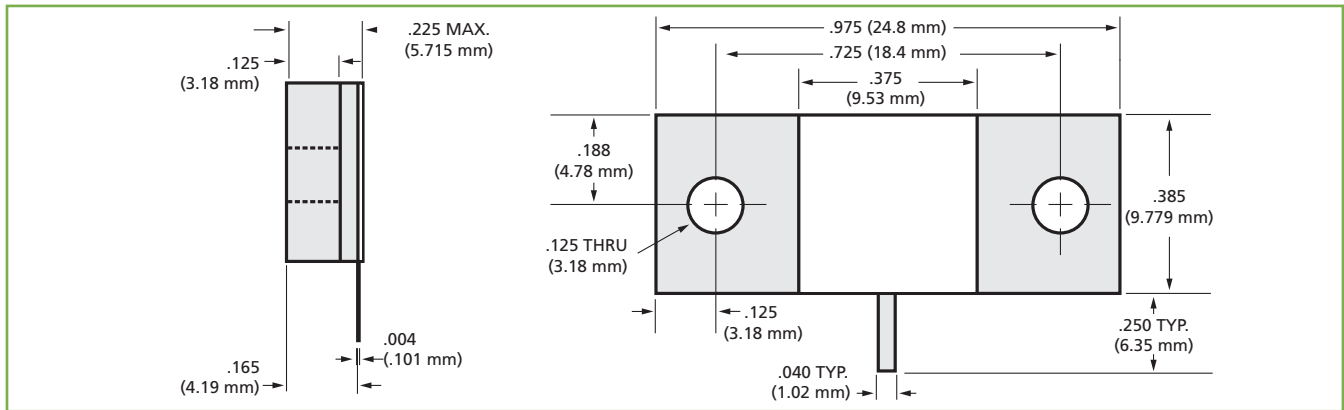
ATC Asia  
sales@atceramics-asia.com

## High Power, Flange Mount Termination

**P/N: FT10975N0050J01**

### Electrical Specifications

- Nominal Impedance: 50 Ω ±5% standard (other Ω values available)
- Power: 250 Watts
- Frequency: DC to 1.0 GHz
- VSWR: 1.20:1
- Operating Temperature Range: -55°C to +150°C
- Temperature Coefficient: <150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant

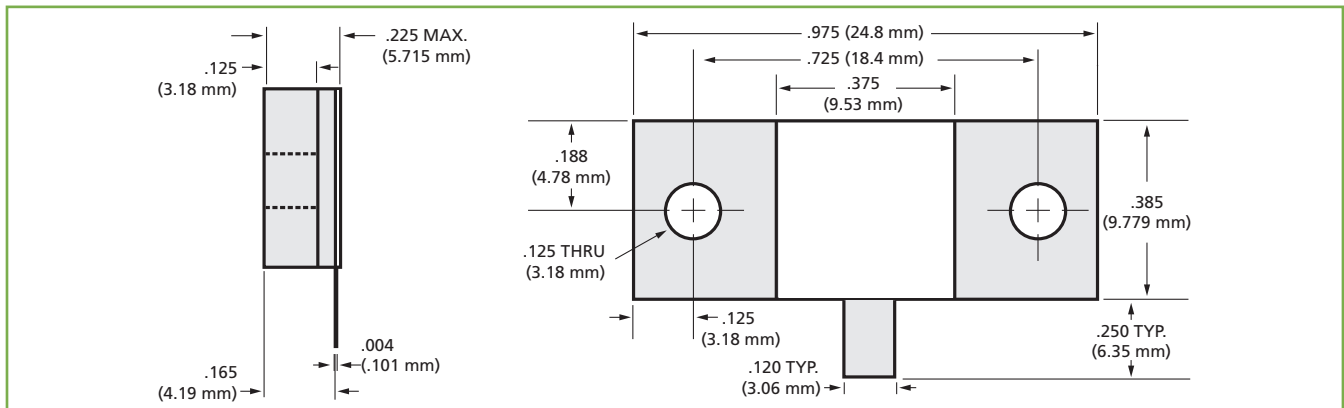


## High Power, Flange Mount Termination

**P/N: FT10975N0050J03**

### Electrical Specifications

- Nominal Impedance: 50 Ω ±5% standard (other Ω values available)
- Power: 250 Watts
- Frequency: DC to 2.0 GHz
- VSWR: 1.20:1
- Operating Temperature Range: -55°C to +150°C
- Temperature Coefficient: ±150 ppm/°C
- Tabs: Silver
- Lead-Free, RoHS Compliant



For Part Number Code, see page 1.

**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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# Mouser Electronics

Authorized Distributor

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[FT10301N0050J](#)



## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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