

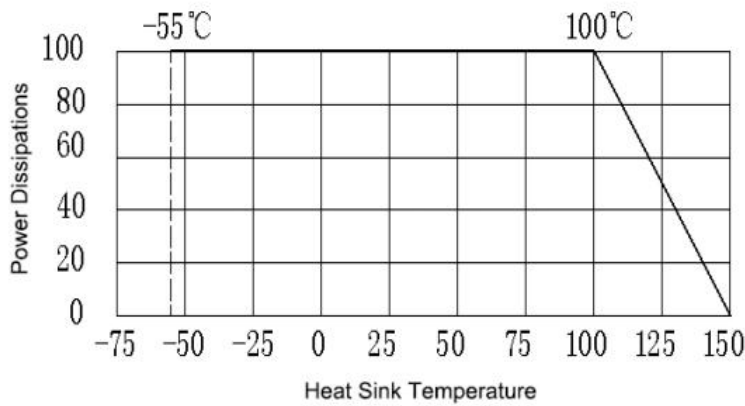
## Flange Terminations

### Electrical Features

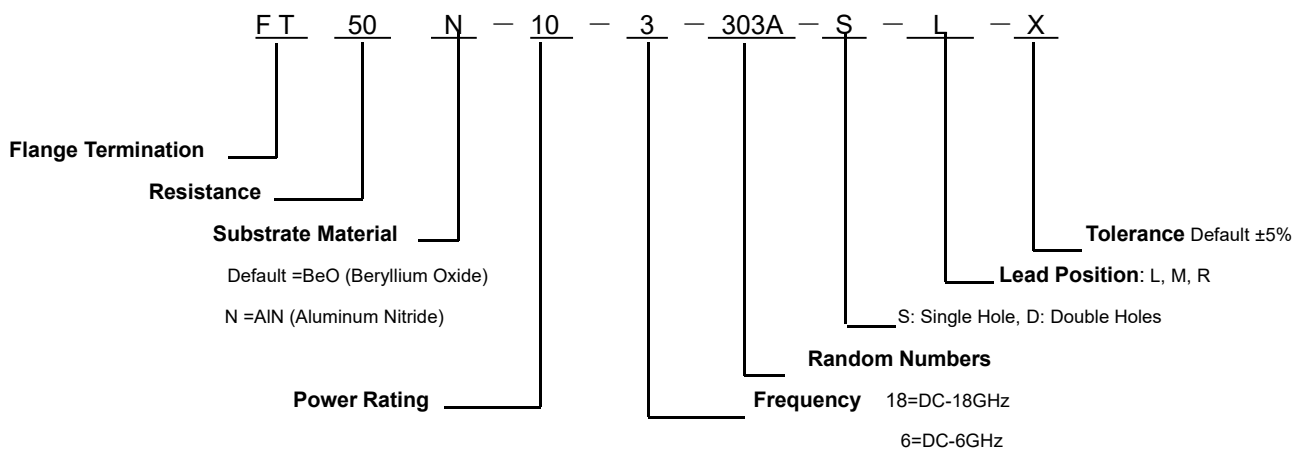
- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Resistive Tolerance:** ±5% standard; ±3%, ±2%, ±1% available
- ✧ **Substrate Material:** Beryllium Oxide (BeO)
- ✧ **Power Rating:** 30W-1500W
- ✧ **Operating Temperature:** -55°C to +150°C
- ✧ **Temperature Coefficient:** ±150ppm/°C
- ✧ **Installation method:** The flange is fixed with screws and must be in close contact with the heat sink.

The lead wire can be welded with a soldering iron.

### Power Derating



### HOW TO ORDER



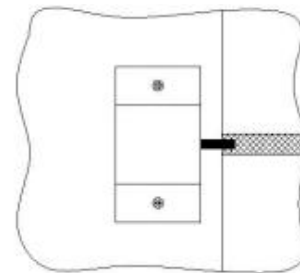
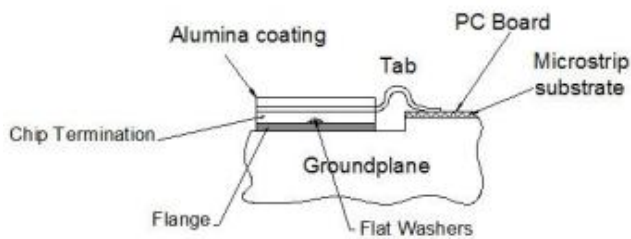
## General Specifications and Dimensions

Part Number	Substrate	Power Rating (W)	Frequency Range (GHz)	VSWR (Max.)	Dimensions (mm)		
					L	W	T
FT50-30-18-402A-S-M-J	BeO	30	DC-18	1.35 : 1	7.7	5.0	3.1
FT50-60-3-106A-D-M-J	BeO	60	DC-3	1.20 : 1	6.0	20.0	3.5
FT50-100-6-201A-D-M-J	BeO	100	DC-6	1.30 : 1	6.0	20	3.5
FT50-200-9-718A-D-M-J	BeO	200	DC-9	1.30 : 1	12.7	32.0	6.5
FT50-250-3-019A-D-M-J	BeO	250	DC-3	1.25 : 1	9.5	24.8	5.5
FT50-400-2-702A-D-M-J	BeO	400	DC-2	1.25 : 1	12.7	28.0	7.9
FT50-800-1-102A-D-M-J	BeO	800	DC-1	1.20 : 1	26.4	48.3	6.5
FT50-1500-0.2-411-D-M-J	BeO	1500	DC-0.162	1.15 : 1	80.0	60.0	9.1

\* Customized products are available, please consult with Kete.

## Installation Instructions

1. When welding devices or leads, it is best to use a temperature-controlled soldering iron and keep the temperature at 260°C.
2. It is best to make an arch bridge shape at the lead (as shown), which can release the ability of thermal deformation to ensure good contact at the lead. Install the lead as little as possible to prevent the lead break.



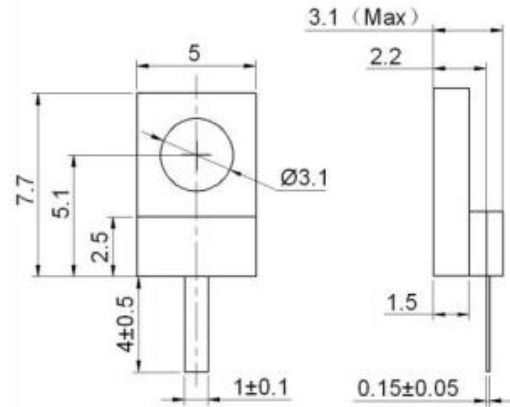
## Flange Terminations

**Part Number:** FT50-30-18-402A-S-M-J

### Electrical Specifications

- ✧ **Nominal Impedance:** 50  $\Omega$
- ✧ **Resistive Tolerance:**  $\pm 5\%$
- ✧ **Substrate Material:** BeO
- ✧ **Power Rating:** 30W
- ✧ **Frequency Range:** DC-18GHz
- ✧ **VSWR:**  $\leq 1.35:1$
- ✧ **Operating Temperature:**  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- ✧ **Temperature Coefficient:**  $\pm 150\text{ppm}/^{\circ}\text{C}$
- ✧ **Lead Length:** 4mm

### Outline Drawing (mm)

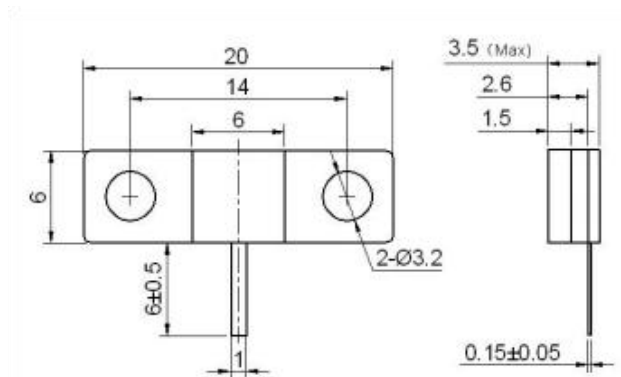


**Part Number:** FT50-60-3-106A-D-M-J

### Electrical Specifications

- ✧ **Nominal Impedance:** 50  $\Omega$
- ✧ **Resistive Tolerance:**  $\pm 5\%$
- ✧ **Substrate Material:** BeO
- ✧ **Power Rating:** 60W
- ✧ **Frequency Range:** DC-3GHz
- ✧ **VSWR:**  $\leq 1.20:1$
- ✧ **Operating Temperature:**  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- ✧ **Temperature Coefficient:**  $\pm 150\text{ppm}/^{\circ}\text{C}$
- ✧ **Lead Length:** 6mm

### Outline Drawing (mm)

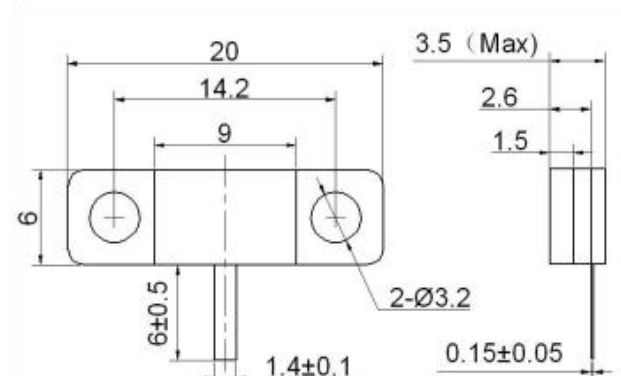


**Part Number:** FT50-100-6-201A-D-M-J

### Electrical Specifications

- ✧ **Nominal Impedance:** 50  $\Omega$
- ✧ **Resistive Tolerance:**  $\pm 5\%$
- ✧ **Substrate Material:** BeO
- ✧ **Power Rating:** 100W
- ✧ **Frequency Range:** DC-6GHz
- ✧ **VSWR:**  $\leq 1.30:1$
- ✧ **Operating Temperature:**  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- ✧ **Temperature Coefficient:**  $\pm 150\text{ppm}/^{\circ}\text{C}$
- ✧ **Lead Length:** 6mm

### Outline Drawing (mm)



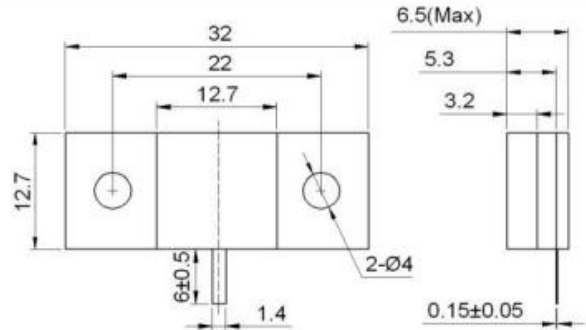
## Flange Terminations

**Part Number:** FT50-200-9-718A-D-M-J

### Electrical Specifications

- ✧ **Nominal Impedance:** 50  $\Omega$
- ✧ **Resistive Tolerance:**  $\pm 5\%$
- ✧ **Substrate Material:** BeO
- ✧ **Power Rating:** 200W
- ✧ **Frequency Range:** DC-9GHz
- ✧ **VSWR:**  $\leq 1.30:1$
- ✧ **Operating Temperature:**  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- ✧ **Temperature Coefficient:**  $\pm 150\text{ppm}/^{\circ}\text{C}$
- ✧ **Lead Length:** 6mm

### Outline Drawing (mm)

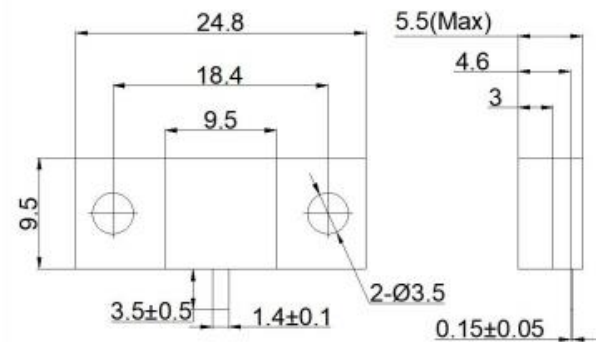


**Part Number:** FT50-250-3-019A-D-M-J

### Electrical Specifications

- ✧ **Nominal Impedance:** 50  $\Omega$
- ✧ **Resistive Tolerance:**  $\pm 5\%$
- ✧ **Substrate Material:** BeO
- ✧ **Power Rating:** 250W
- ✧ **Frequency Range:** DC-3GHz
- ✧ **VSWR:**  $\leq 1.25:1$
- ✧ **Operating Temperature:**  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- ✧ **Temperature Coefficient:**  $\pm 150\text{ppm}/^{\circ}\text{C}$
- ✧ **Lead Length:** 3.5mm

### Outline Drawing (mm)

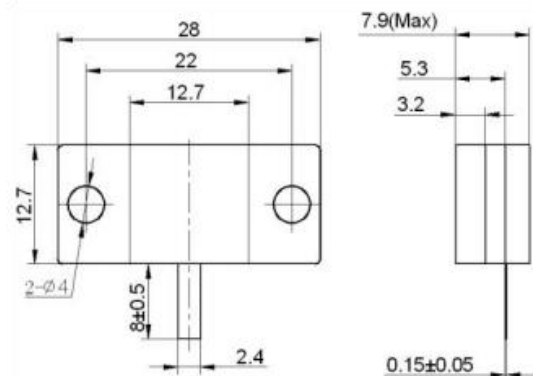


**Part Number:** FT50-400-2-702A-D-M-J

### Electrical Specifications

- ✧ **Nominal Impedance:** 50  $\Omega$
- ✧ **Resistive Tolerance:**  $\pm 5\%$
- ✧ **Substrate Material:** BeO
- ✧ **Power Rating:** 400W
- ✧ **Frequency Range:** DC-2GHz
- ✧ **VSWR:**  $\leq 1.25:1$
- ✧ **Operating Temperature:**  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- ✧ **Temperature Coefficient:**  $\pm 150\text{ppm}/^{\circ}\text{C}$
- ✧ **Lead Length:** 8mm

### Outline Drawing (mm)



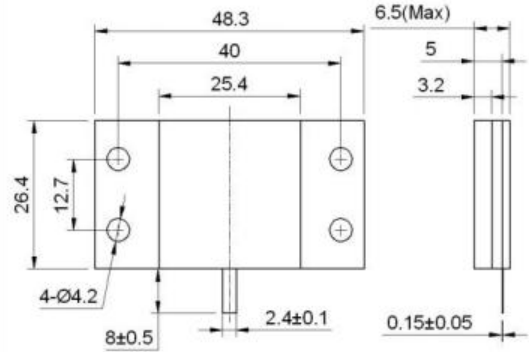
## Flange Terminations

Part Number: FT50-800-1-102A-D-M-J

### Electrical Specifications

- ◇ Nominal Impedance: 50 Ω
- ◇ Resistive Tolerance: ±5%
- ◇ Substrate Material: BeO
- ◇ Power Rating: 800W
- ◇ Frequency Range: DC-1GHz
- ◇ VSWR: ≤1.20:1
- ◇ Operating Temperature: -55°C to +150°C
- ◇ Temperature Coefficient: ±150ppm/°C
- ◇ Lead Length: 8mm

### Outline Drawing (mm)



Part Number: FT50-1500-0.2-411-D-M-J

### Electrical Specifications

- ◇ Nominal Impedance: 50 Ω
- ◇ Resistive Tolerance: ±5%
- ◇ Substrate Material: BeO
- ◇ Power Rating: 1500W
- ◇ Frequency Range: DC-1GHz
- ◇ VSWR: ≤1.15:1
- ◇ Operating Temperature: -55°C to +150°C
- ◇ Temperature Coefficient: ±150ppm/°C
- ◇ Lead Length: 10mm

### Outline Drawing (mm)

