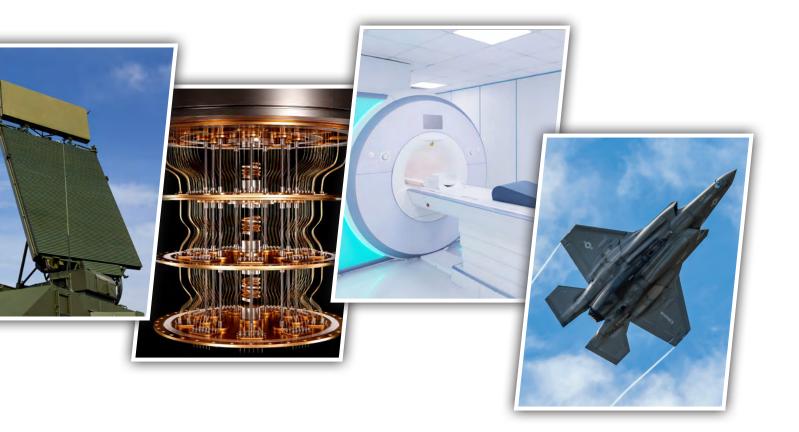


## POWERFILM™



## Powerfilm<sup>TM</sup> Surface Mount Resistive Products



### Powerfilm<sup>™</sup> Surface Mount Resistive Products

Resistors, Terminations, and Attenuators

- Up to 40GHz for High-frequency
- Up to 1250W for High Power
- Selectable Finishes and Packaging Options



The Powerfilm<sup>™</sup> team is ready to help you with product selection, engineering and application support, product testing including MIL-spec qualification, and on-time delivery, all from our US based facility.

## **Industries and Applications**

Spectrum Control's Powerfilm<sup>™</sup> resistive products are used in dozens of different applications, and this list continues to grow longer. Contact us to help you find the best Powerfilm<sup>™</sup> product for your application!

#### **Military and Government**



- Integrated Microwave Assemblies
- E/W and T/R modules
- Phased-Array Radars

#### **Avionics and Transportation**



 Traffic Collision Avoidance and Proximity Warning systems

#### Medical



- Flanged Resistors for RF power and Plasma generation
- MRI Power Electronics

### Space



 Satellite Communications including GPS III and NISAR-ISRO

#### Wireless Communications



- FM and TV Signal Transmitters
- High-Power Terminations for Isolators & Amplifiers

### More...

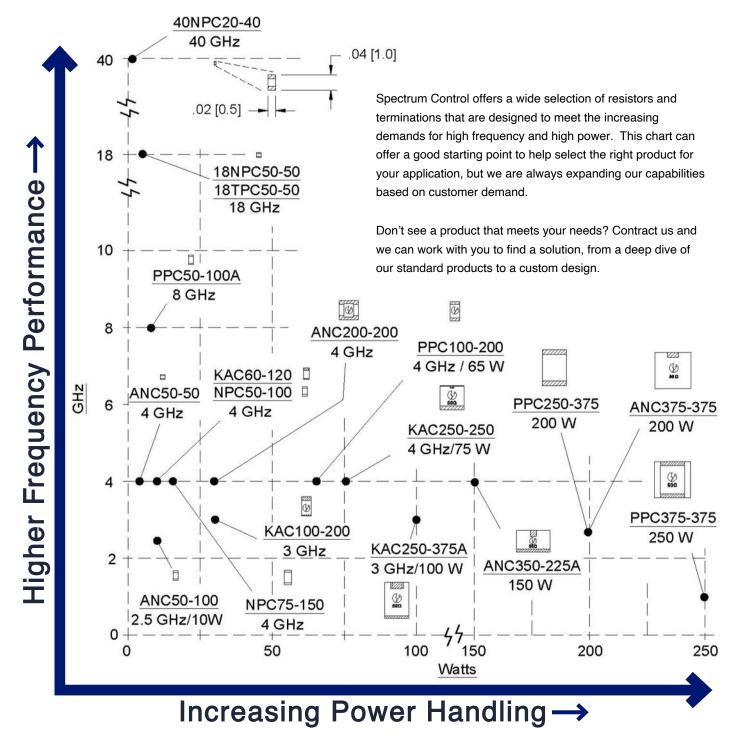


- Test and Measurement
- Cryogenic Computing





## **Chip Resistor and Termination Selection Guide**

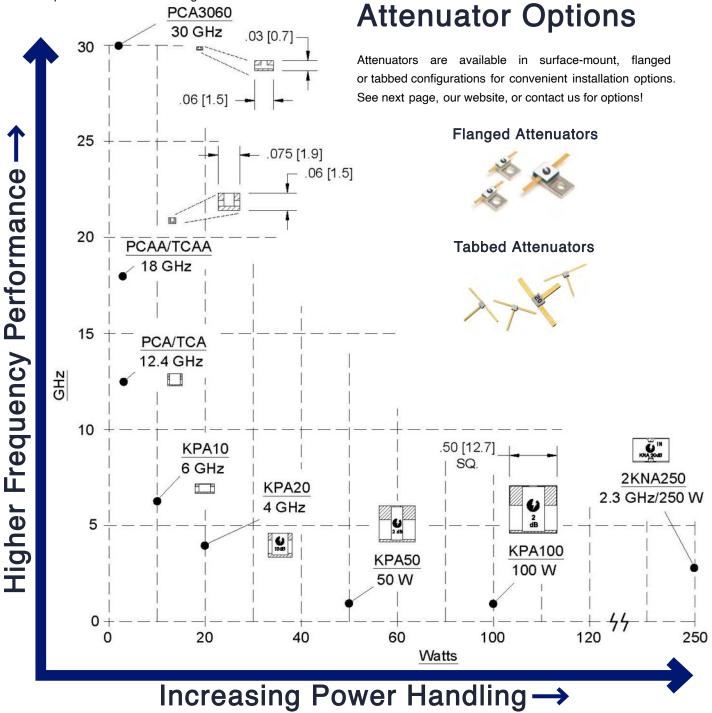






## **Chip Attenuator Selection Guide**

Don't see a product that meets your needs? Contract us and we can work with you to find a solution, from a deep dive of our standard products to a custom design.







# Flange Termination and Resistor Guide Tab Options

- Gold plated Beryllium Copper Silver
- · Straight or bent for stress relief
- · Custom length and width **PPT515** 75W, 7 GHz 7 500 7ANT300 0 7 GHz 6 Higher Frequency Performance -ိ 500 5 **PPT975** 300W, 4 GHz 1 GHz () О O 50Ω 3 **ANR870** 1.90 [48.26] **TPT1250** 150W, 3 GHz 500W, 2 GHz 6 50 Ω 2 О O О  $\bigcirc$ 1.040 [26.42] 50Ω O 6 О 1 50Ω **PPR1250** PPR1900 **TPT1900** 400W 1250 W 800 W 0 1000 200 0 400 600 800 1250

### Increasing Power Handling→

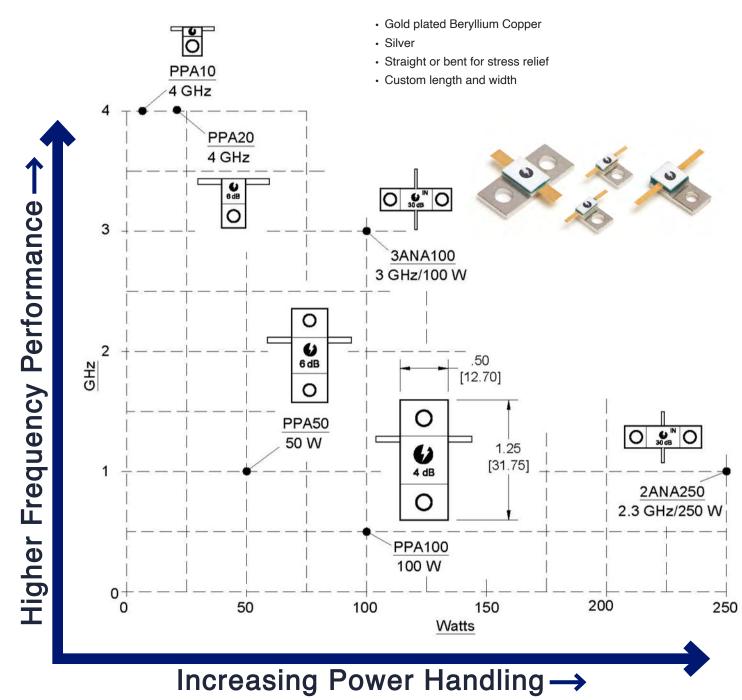
Watts





## **Flange Attenuator Selection Guide**

# **Tab Options**







### **Substrate Options**

Spectrum Control Powerfilm<sup>™</sup> products are available in a variety of substrates.

**BeO:** BeO (Beryllium Oxide) offers a high thermal conductivity to enable best performing products.

AIA: AIN (Aluminum Nitride) offers a balance of thermal performance and cost – best value power products. Alumina: Offers best value and performance for high-

frequency applications with lower power requirements.



## **Terminal Options**

Silver over Nickel: Best value Gold: Best for Wire-bonding Tinned with Lead-free solder: Best solderability Tinned with Tin-Lead solder: RoHS compliant solder

# Pills

Spectrum Control also offers pill terminations for high frequency and high powers.

## Rods

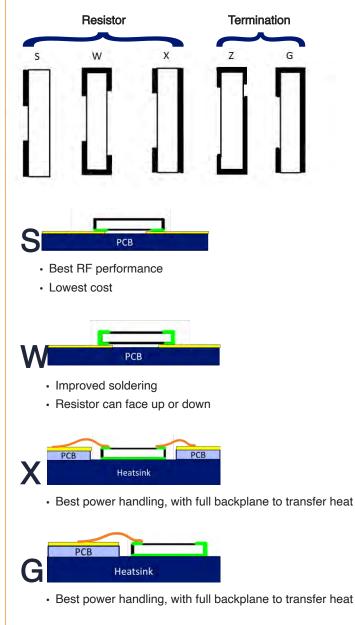


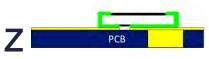
Spectrum Control also offers rod resistors in various sizes for both high frequency and hi

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Contact us or visit our website for more details.

## Resistor & Termination Wrap Styles





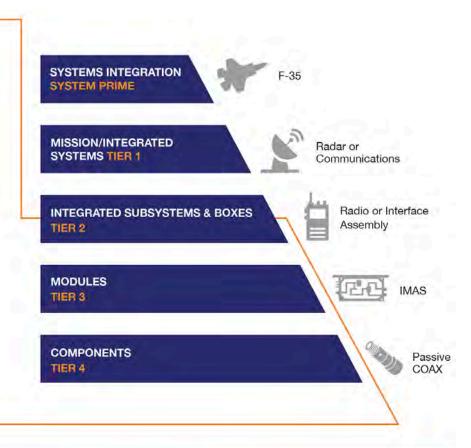
· Combines ease of installation with high power performance





### Value-added Integration from Components to Subsystem Solutions

Spectrum Control provides rugged, reliable, and efficient subsystems, assemblies, and components for use in the most mission critical defense and military applications, supporting government programs throughout the world. With diverse program experience and preferred supplier status with some of the industry's top premier contractors. our precision-engineered MIL-grade products are ideal for applications where uncompromised reliability and uninterrupted performance is required. Spectrum Control is the Electromagnetic Spectrum Innovator at Tier 2.5-4 in the supply chain.



### The Electromagnetic Spectrum Innovator

Spectrum Control is an innovative designer and manufacturer of high performance systems, subsystems, assemblies and components for technically demanding RF, microwave, millimeter-wave, electromagnetic, power, and security applications.

A high reliability technology pioneer with over 70 years of heritage, Spectrum Control's products are used by global defense, industrial, and commercial customers in applications spanning radar, electronic warfare, unmanned systems, missile defense, harsh environments, space, communications, medical, test and instrumentation, and more.



www.SpectrumControl.com

**Contact US** 

