

Powerfilm Chip Attenuator for Phased Array Radar

Surface Mount Chip Attenuator, Best-in-Class Performance, Rated to 30GHz, In 0603 Package Size

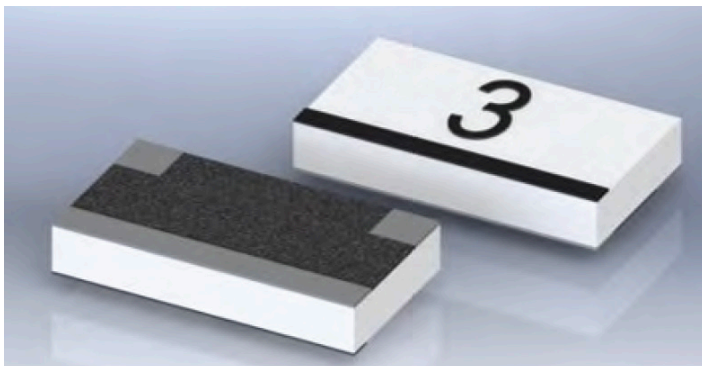
Spectrum Control's newest Powerfilm chip attenuator, the PCA3060, helps to balance signal levels inside the phase-array radar transmit/receive modules, which are themselves used to help electronically 'steer' the radar beam in different directions but without actually physically moving the antenna. It's a critical function, and with performance, reliability and customization of the chip attenuators all necessary requirements. Achieved. This newest surface mount chip attenuator is rated to 30GHz, with power handling to 1Watt.

Performance, Size & Flexibility

Advanced radar transmits multiple radio waves at multiple frequencies simultaneously. This demands proven, high-rel technology at every level – including chip attenuators. Powerfilm PCA3060 is tested to 30GHz and beyond, higher than competitive offerings, and with lower reflection at equivalent frequencies, and in an ultra-small 30x60 (0.89x1.65mm) package.

“Push the limits of frequency without sacrificing performance.”

Powerfilm surface mount resistive chip attenuators are used in radar, space, and other high-rel applications. We can customize our solution to match your power handling, RF response, manufacturing requirements, and other needs.



30 GHz performance and beyond in a 30x60 (0.89x1.65mm) package.



All-around antenna. Phased array technology.

Clear Competitive Differentiators

High-rel and customization are not the only decision points. Continuous development in phase-array radars is also driving opportunities for SWaP-C optimized solutions (size, weight, power consumption and cost, plus dependability), which Powerfilm surface mount attenuators and terminations delivers. We work with you to determine the best configuration with respect to frequency and power handling requirements, as well as delivery times.

Specifications and Customization

- 30 GHz 1 Watt performance
- 30x60 (0.89x1.65mm) package
- Surface mount (drop-in or bond and wire)
- Selectable dB values (1-12dB; 15 & 20dB)
- Thin film resistor
- Available in lead-free, tin-lead solder or gold finish
- Design kits are available
- MIL-DTL-3933 and other testing available