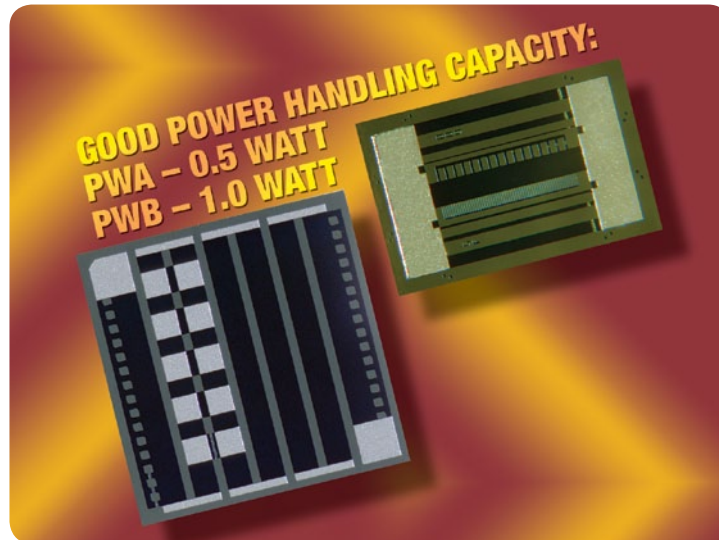


Thin Film Wire Bondable Power Resistors



KEY BENEFITS

- Small size: 0.030 x 0.045 in. (PWA); 0.070 x 0.070 in. (PWB)
- Excellent power capability: 0.5 watts (PWA); 1.0 watts (PWB)
- Good power handling: 100 % rated power to + 70 °C derated to 0 % power at + 125 °C

APPLICATIONS

- High-power amplifier circuits where increased power loads require specialized resistors
- Power supplies

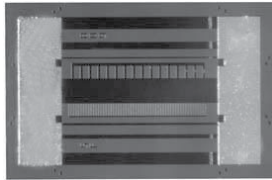
RESOURCES

- Datasheet: PWA - <http://www.vishay.com/doc?61019>
- Datasheet: PWB - <http://www.vishay.com/doc?61021>
- For technical questions contact efi@vishay.com



Thin Film Wire Bondable Power Resistors

PWA



Product may not be to scale

The PWA series resistor chips offer a 500 mW power rating in a small size. These offer one of the best combinations of size and power available.

The PWAs are manufactured using Vishay Electro-Films (EFI) sophisticated thin film equipment and manufacturing technology. The PWAs are 100 % electrically tested and visually inspected to MIL-STD-883, method 2032, class H or class K.

FEATURES

- Wire bondable
- 500 mW power
- Chip size: 0.030" x 0.045"
- Case: 0503
- Resistance range 0.3 Ω to 1 M Ω
- Oxidized silicon substrate for good power dissipation
- Resistor material: Tantalum nitride, self-passivating

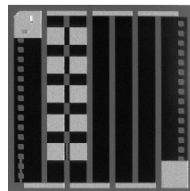
APPLICATIONS

The PWA resistor chips are used mainly in higher power circuits of amplifiers where increased power loads require a more specialized resistor.

TEMPERATURE COEFFICIENT OF RESISTANCE, VALUES, AND TOLERANCES

PARAMETER	VALUE	UNIT
Total Resistance Range	0.3 to 1M	Ω
Standard Tolerances	$\pm 0.1, \pm 0.5, \pm 1, \pm 5$	%
TCR	$\pm 25, \pm 50, \pm 100, \pm 150$	ppm/ $^{\circ}$ C

PWB



Product may not be to scale

The PWB series resistor chips offer a 1 W power rating in a relatively small size. They offer one of the best combinations of size and power available.

The PWBs are manufactured using Vishay Electro-Films (EFI) sophisticated thin film equipment and manufacturing technology. The PWBs are 100 % electrically tested and visually inspected to MIL-STD-883, method 2032, class H or class K.

FEATURES

- Wire bondable
- Power: 1 W
- Chip size: 0.070 inches square
- Case: 0707
- Resistance range: 0.3 Ω to 20 k Ω
- Oxidized silicon substrate for good power dissipation
- Resistor material: Tantalum nitride, self-passivating

APPLICATIONS

The PWB resistor chips are used mainly in higher power circuits of amplifiers where increased power loads require a more specialized resistor.

TEMPERATURE COEFFICIENT OF RESISTANCE, VALUES, AND TOLERANCES

PARAMETER	VALUE	UNIT
Total Resistance Range	0.3 to 20K	Ω
Standard Tolerances	$\pm 0.5, \pm 1, \pm 5$	%
TCR	$\pm 50, \pm 100, \pm 250$	ppm/ $^{\circ}$ C

Revision 02-Aug-11