



VISHAY INTERTECHNOLOGY, INC.



CARBON FILM RESISTORS

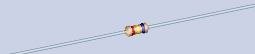

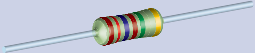

LCA...xx
HCA0207
SKS
CBB
SPW
B, T, D, G


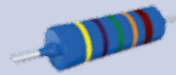
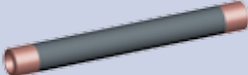
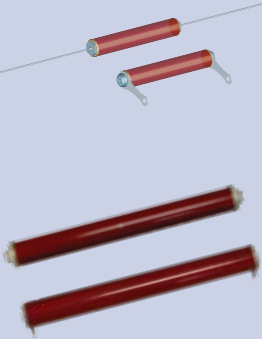


Carbon Film Resistors

Key Features

- A wide range of power ratings (0.25 W to 120 W)
- A wide resistance range (0.22 Ω to 500 M Ω)
- Low/high temperature performance (– 55 $^{\circ}\text{C}$ to + 175 $^{\circ}\text{C}$)
- Tight tolerance (down to $\pm 1\%$)
- Low noise: – 10 dB
- Flameproof and fusible options

Product	Model	Wattage Ratings	Resistance Range	TCR ppm/ $^{\circ}\text{C}$	Tolerance	Application
LCA 	LCA0204	0.25	10 Ω – 470 K Ω 1 Ω – 1 M Ω	– 200 to – 1200	$\pm 2\%$ $\pm 5\%$	<ul style="list-style-type: none"> • Entertainment • Consumer • Industrial • Communications • General purpose • Household equipment • TV • Video • Switches • Clocks • Networks • Heating systems • Washing machine
	LCA0207	0.35	1 Ω – 1 M Ω 0.22 Ω – 5.1 M Ω		$\pm 2\%$ $\pm 5\%$	
	LCA0411	0.55	1 Ω – 1 M Ω 0.22 Ω – 10 M Ω		$\pm 2\%$ $\pm 5\%$	
	LCA0414	0.6	1 Ω – 1 M Ω 0.22 Ω – 10 M Ω		$\pm 2\%$ $\pm 5\%$	
			0.22 Ω – 10 M Ω		$\pm 2\%$ $\pm 5\%$	
LCA...NE 	LCA0204NE	0.25	10 Ω – 470 K Ω 1 Ω – 1 M Ω	– 200 to – 1200	$\pm 2\%$ $\pm 5\%$	<ul style="list-style-type: none"> • Non flammable resistor • Washing machines • Household machines • Hair dryer • TV, radio • Heating systems
	LCA0207NE	0.35	1 Ω – 2.2 M Ω 0.22 Ω – 10 M Ω		$\pm 2\%$ $\pm 5\%$	
	LCA0411NE	0.5	1 Ω – 10 M Ω 0.22 Ω – 10 M Ω		$\pm 2\%$ $\pm 5\%$	
	LCA0414NE	0.55	1 Ω – 5.1 M Ω 0.22 Ω – 10 M Ω		$\pm 2\%$ $\pm 5\%$	
HCA0207 	HCA0207	0.8	10 Ω – 1 M Ω 4.7 Ω – 2.2 M Ω 4.7 Ω – 2.2 M Ω	– 220 to – 1500	$\pm 1\%$ $\pm 2\%$ $\pm 5\%$	<ul style="list-style-type: none"> • Refrigerator • Lamp controls
LCA...SI 	LCA0207SI	0.25	0.22 Ω – 1 K Ω	+ 300 to – 200	$\pm 5\%$	<ul style="list-style-type: none"> • Fusible resistor • Overload protection • TV, radio
	LCA0411SI	0.35	0.22 Ω – 1 K Ω			

Product	Model	Wattage Ratings	Resistance Range	TCR ppm/°C	Tolerance	Application
 <p>SKS</p>	SKS2 SKS4	0.3 0.5	1 Ω – 5.1 KΩ 1 Ω – 5.1 KΩ	+ 200 to – 500	± 5 %, ± 10 %	<ul style="list-style-type: none"> Fusible resistor Overload protection TV, radio transmission Audio
 <p>CBB</p>	CBB0207	0.6	10 R – 1.5 M	– 250 to – 450	± 2 %	<ul style="list-style-type: none"> Automotive Telecom Industrial equipment
 <p>SPW</p>	SPW236 SPW227 SPW210 SPW214 SPW212	120 55 40 10 2	50 Ω standard for all, other values available on special order	± 200 average ± 250 max.	± 2 %, ± 5 %	<ul style="list-style-type: none"> TV, radio transmission Dielectric heating Special high power
 <p>B, T, D, G</p>	BAEW BAKW BBF, BBFW BBM, BBMW BBR, BBRW BBV BFQ BFT BFW TAKW DJU DPW/DPW..1 DPX/DPX..1 DVY/DVY..1 DZW/DZW..1 DZZ/DZZ..1 GJU GPW/GPW..1 GPX/GPX..1 GVY/GVY..1 GZW/GZW..1 GZZ/GZZ..1	0.5 1.0 1.0 2.0 3.0 5.0 4.0 6.0 10.0 1.5 10.0 20.0 30.0 60.0 35.0 100.0 10.0 20.0 30.0 60.0 35.0 100.0	50 KΩ – 500 MΩ 100 KΩ – 500 MΩ 50 KΩ – 500 MΩ 50 KΩ – 500 MΩ 100 KΩ – 500 MΩ 200 KΩ – 500 MΩ 100 KΩ – 500 MΩ 200 KΩ – 500 MΩ 400 KΩ – 500 MΩ 1 MΩ – 500 MΩ 50 KΩ – 500 MΩ 100 KΩ – 500 MΩ 100 KΩ – 500 MΩ 400 KΩ – 500 MΩ 300 KΩ – 500 MΩ 700 KΩ – 500 MΩ 1 KΩ – 1 MΩ 1 KΩ – 1 MΩ 1 KΩ – 1 MΩ 1 KΩ – 5 MΩ 1 KΩ – 1 MΩ 1 KΩ – 10 MΩ		± 20 %, ± 15 %, ± 10 %, ± 5 %	<ul style="list-style-type: none"> General purpose High power, high-voltage applications



SEMICONDUCTORS:

Rectifiers • High-Power Diodes and Thyristors • Small-Signal Diodes • Zener and Suppressor Diodes
• FETs • RF Transistors • Optoelectronics • ICs • Modules and Assemblies

PASSIVE COMPONENTS:

Resistive Products • Magnetics • Capacitors • Strain Gage Transducers and Stress Analysis Systems

**One of the World's Largest
Manufacturers**
of Discrete Semiconductors and Passive Components

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