

Fixed Resistors

RESISTOR GUIDE: Non-Wirewound Carbon Composition Fixed Resistor

Type	Power at 70°	Resistance Range ¹ ²	Tolerance	Voltage Rating (RMS or DC) ³ E(Max) = \sqrt{PR}
Industrial Grade BB Military Grade RC05 Military Grade-S Level RCR05	1/8 Watt	2.7 Ohms to 100 Megohms	±5, 10, 20%	150V
		2.7 Ohms to 22 Megohms	±5, 10%	
Industrial Grade CB Military Grade RC07 Military Grade-S Level RCR07	1/4 Watt	2.7 Ohms to 100 Megohms	±5, 10, 20%	250V
		2.7 Ohms to 22 Megohms	±5, 10%	
Industrial Grade EB Military Grade RC20 Military Grade-S Level RCR20	1/2 Watt	1.0 Ohm to 100 Megohms	±5, 10, 20%	350V
		1.0 Ohm to 22 Megohms	±5, 10%	
Industrial Grade GB Military Grade RC32 Military Grade-S Level RCR32	1 Watt	1.0 Ohm to 100 Megohms	±5, 10, 20%	500V
		1.0 Ohm to 22 Megohms	±5, 10%	
Industrial Grade HB Military Grade RC42 Military Grade-S Level RCR42	2 Watts	10 Ohms to 100 Megohms	±5, 10, 20%	750V
		10 Ohms to 22 Megohms	±5, 10%	500V
Industrial Grade GM	3 Watts	1.0 Ohm to 22 Megohms	±5, 10%	500V
Industrial Grade HM	4 Watts	10 Ohms to 22 Megohms	±5, 10%	750V

¹ **Ultra-High Resistance Values** — Resistance values into the teraohm (million megohm) range are available in the Industrial Grade BB, CB, and EB products. Contact the factory for information.

² **Non-Standard Resistance Values** — Both standard and non-standard EIA resistance values are available in all wattage ratings. Contact the factory for assistance with non-standard values.

³ **Voltage ratings (RMS or DC) listed above are rated continuous working voltages (RCWV) at sea level.** Use the equation $E(\max) = \sqrt{PR}$ to determine the maximum RCWV for any specific resistance value. In no case should it exceed those values listed above in a circuit application.