

# Featured Products

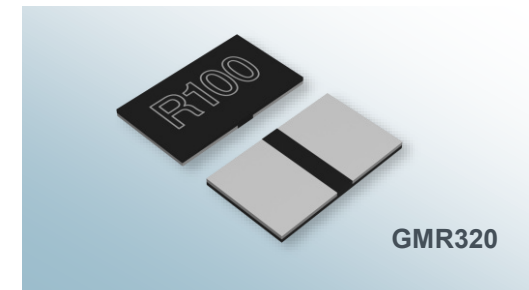


Guaranteed 10W power ideal for power supplies and motors for industrial equipment, home appliances, and automotive systems

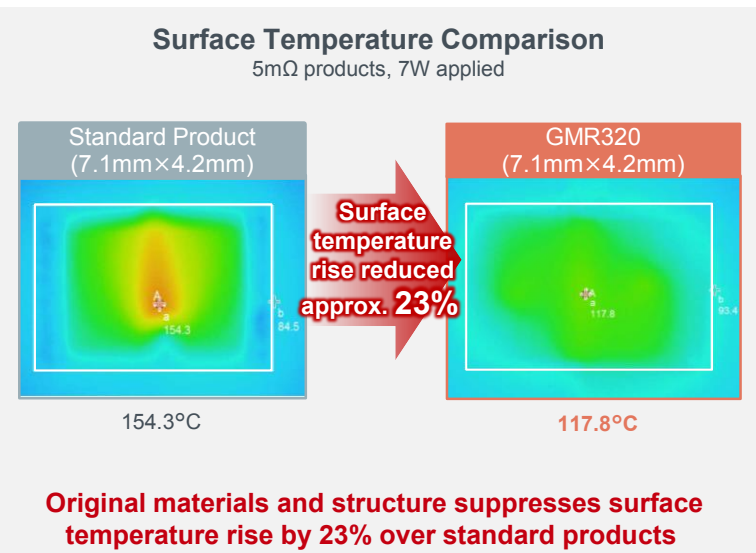
## High Power Shunt Resistors

GMR320 (5mΩ, 10mΩ to 100mΩ)

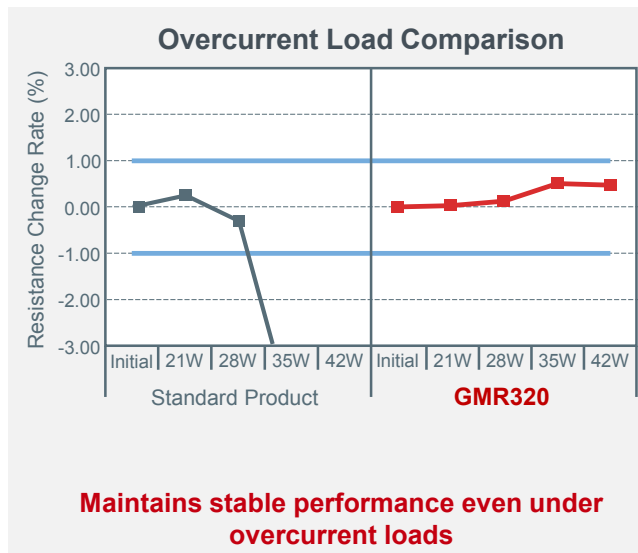
- Proprietary materials and structure suppresses surface temperature rise by 23% (vs standard products)
- Achieves high durability against overcurrent loads despite being the smallest in the 10W class
- Delivers excellent temperature coefficient of resistance ( $\pm 25\text{ppm}/^\circ\text{C}$ ), even in the low resistance region



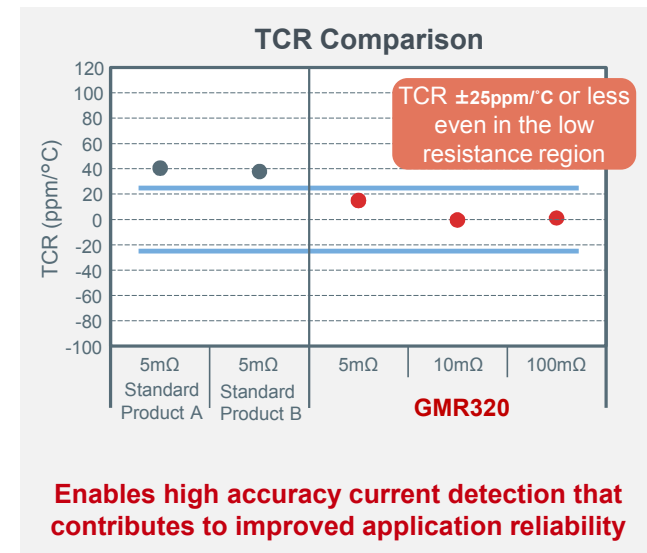
### ■ Suppresses Surface Temperature Rise



### ■ High durability against overcurrent loads



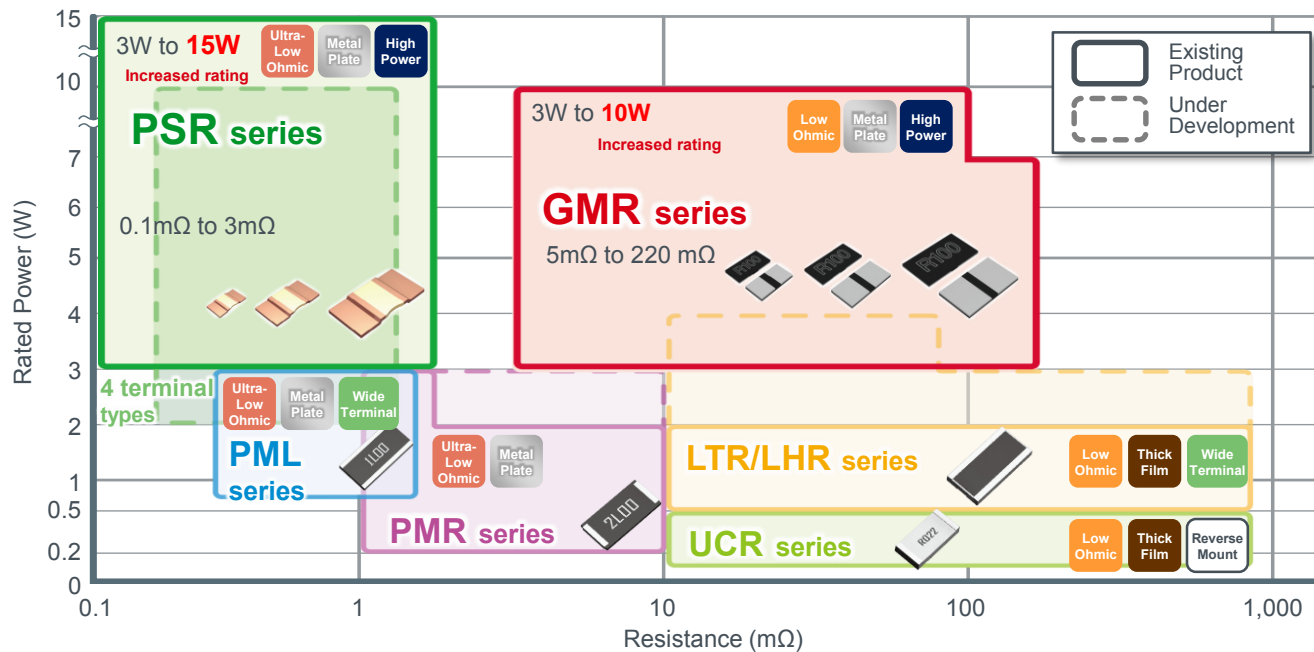
### ■ Superior Temperature Coefficient of Resistance (TCR)



## Lineup

	Part No.	size mm (inch)	Rated Power		Resistance Tolerance	Temperature Coefficient of Resistance (ppm/°C)	Resistance (mΩ)	Operating Temp. (°C)	
			Ambient Temperature Derating	[After Rating Increase] Terminal Temperature Derating					
<b>Rating UP</b>	<b>GMR50</b>	<a href="#">Web</a>	5025 (2010)	2W (70°C)	4W (90°C), 3W (110°C)	F (±1%)	0 to +25 ±25	5 10 to 220 (E24 series)	-65 to +170
<b>Rating UP</b>	<b>GMR100</b>	<a href="#">Web</a>	6432 (2512)	3W (70°C)	7W (70°C), 5W (110°C)	F (±1%)	0 to +25 ±20	5 10 to 220 (E24 series)	
<b>New</b>	<b>GMR320</b>	<a href="#">Web</a>	7142(2817)	5W(70°C)	10W (70°C), 7W (110°C)	F(±1%)	0 to +25 ±25	5 10 to 100 (E24 series)	

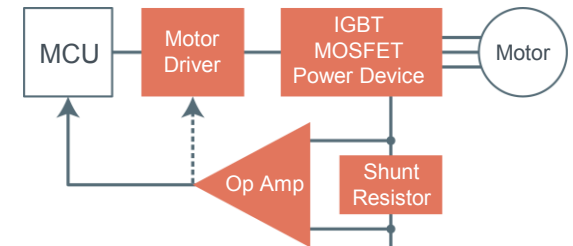
## ROHM's Resistor Selection Chart



## Application Examples

- Automotive (engine ECUs, headlamps)
- Industrial (FA equipment, motor peripheral circuits, power supplies)
- Home appliances (AC, washers, refrigerators, vacuum cleaners) and more...

Detection Circuit Ex. ■ Devices ROHM can provide



This circuit controls motor speed and protects the circuit by using a shunt resistor to measure the output current of the IGBT/MOSFET/motor driver



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