

Featured Products



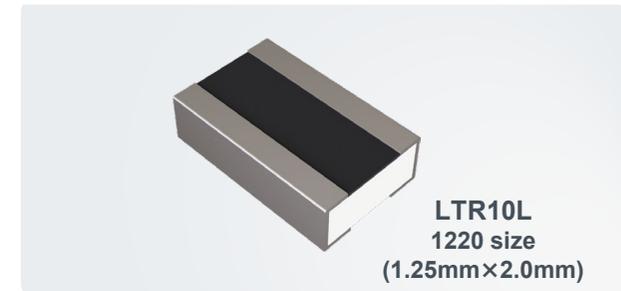
Class-leading* 1W rated power in the 1220 size

High Power Wide Terminal Thick-Film Shunt Resistors

LTR10L

*ROHM September 2022 study

- Contributes to greater application miniaturization when replacing conventional products**
 Provides class-leading* 1W rated power in the 1220 size
- Resistance tolerances as low as $\pm 0.5\%$ (Class D)**
 Supports applications requiring high current detection accuracy
- Improved element structure ensures superior temperature coefficient of resistance (TCR)**
 Temperature Coefficient of Resistance same as metal plate shunt resistors
- Increased anti-sulfuration performance**
 Suitable for applications requiring long-term reliability

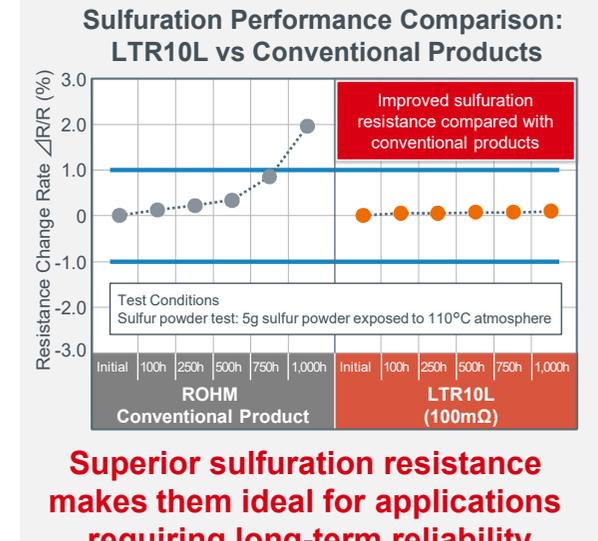
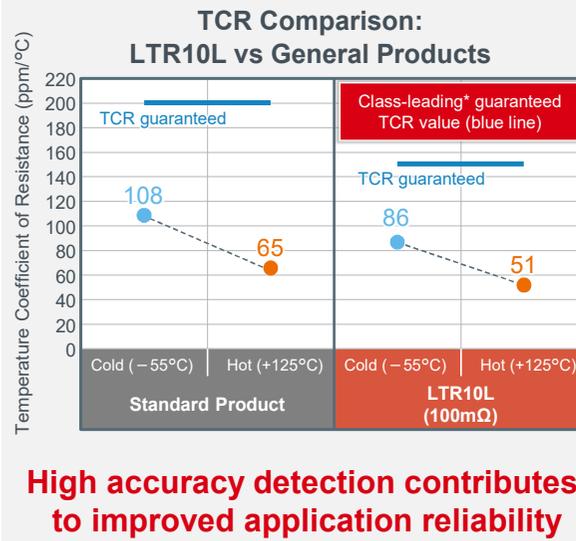


■ Achieves Higher Power and Accuracy in a Smaller size

■ Class-Leading* Low TCR

■ Increased Sulfuration Resistance

	ROHM Conventional Product			
	MCR100	LTR18	LTR10	LTR10L
size mm (inch)	6432 (2512)	1632 (0612)	1220 (0508)	1220 (0508)
Rated Power	1.0W	1.0W	0.5W	1.0W
Resistance Tolerance	F ($\pm 1.0\%$) J ($\pm 5.0\%$)	F ($\pm 1.0\%$) J ($\pm 5.0\%$)	F ($\pm 1.0\%$) J ($\pm 5.0\%$)	D ($\pm 0.5\%$) F ($\pm 1.0\%$) J ($\pm 5.0\%$)



LTR Low Ohmic Resistor Lineup

Click on the icon to access the product page on ROHM's website

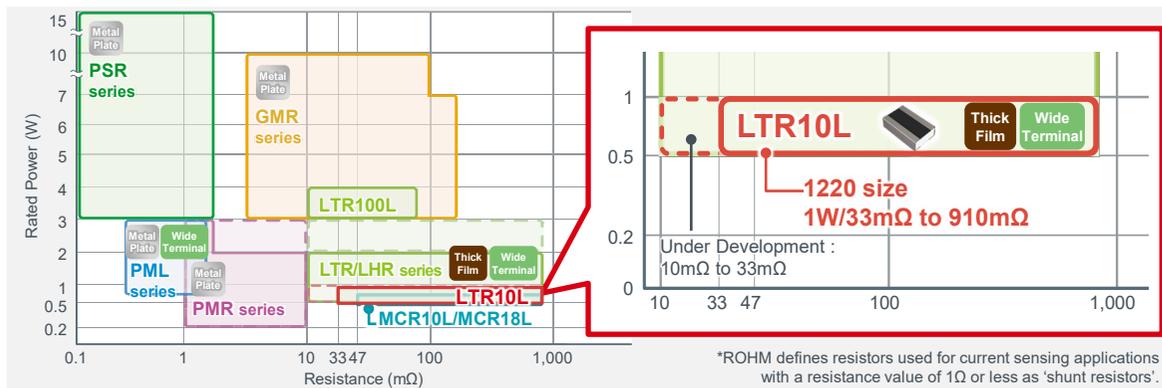
Click on the icon to access the product datasheet on ROHM's website

Part No.	Size Code mm (inch)	Rated Power	Rated Ambient Temperature	Rated Terminal Temperature	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200	
New LTR10L	1220 (0508)	1W	70°C	125°C	J (±5%)	0 to 150	33mΩ to 180mΩ (E24 series)		YES	
					F (±1%)	0 to 100	200mΩ to 910mΩ (E24 series)			
					D (±0.5%)	0 to 150 0 to 100	100mΩ to 180mΩ (E24 series) 200mΩ to 910mΩ (E24 series)			
LTR18	1632 (0612)	1W	70°C	-	J (±5%)	0 to 300	10mΩ to 18mΩ (E24 series)	-55 to +155	YES	
					F (±1%)	0 to 200 0 to 150	20mΩ to 47mΩ (E24 series) 51mΩ to 470mΩ (E24 series)			
		☆1.5W	70°C	☆95°C	J (±5%)	0 to 300 0 to 200	10mΩ to 18mΩ (E24 series) 20mΩ to 47mΩ (E24 series)			YES
		F (±1%)	0 to 150 ±100	51mΩ to 470mΩ (E24 series) 510mΩ to 1Ω (E24 series)						
LTR50	2550 (1020)	2W	70°C	-	J (±5%)	0 to 300 0 to 200	10mΩ to 18mΩ (E24 series) 20mΩ to 47mΩ (E24 series)	-65 to +155	YES	
F (±1%)	0 to 150 ±100	51mΩ to 91mΩ (E24 series) 100mΩ to 910mΩ (E24 series)								
LTR100L	3264 (1225)	4W	70°C	110°C	J (±5%)	0 to 300 0 to 200	10mΩ to 18mΩ (E24 series) 20mΩ to 47mΩ (E24 series)	-55 to +155	YES	
F (±1%)		0 to 150	51mΩ to 91mΩ (E24 series)							
LTR100		2W	70°C	-	J (±5%)	±200	100mΩ to 910mΩ (E24 series)			YES
					F (±1%)	0 to 150 0 to 100	100mΩ to 180mΩ (E24 series) 200mΩ to 910mΩ (E24 series)			
☆3W	70°C	☆110°C	J (±5%)	±200	100mΩ to 910mΩ (E24 series)	YES				
F (±1%)	0 to 150 0 to 100	100mΩ to 180mΩ (E24 series) 200mΩ to 910mΩ (E24 series)								

☆: Under Development

Shunt Resistor Product Map

Existing Product Under Development



Application Examples

Automotive

- LED Headlamps
- Motor Peripheral Circuits
- Various Power Supplies

Industrial Equipment

- Communication Base Stations
- FA Equipment
- Motor Peripheral Circuits
- Various Power Supplies

Consumer Devices

- AC
- Washing Machines
- Refrigerators

Ideal for a wide range of circuits requiring current detection, such as motor, battery and LCD applications

The information contained in this document is current as of September 1st, 2022.



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