

Featured Products

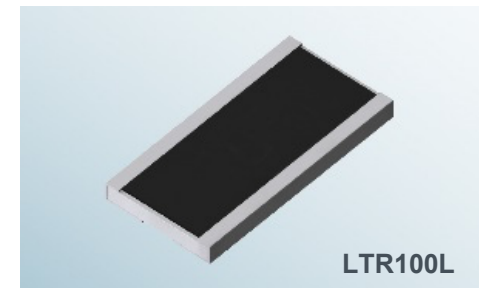


Achieves high 4W rated power in the 3264 size

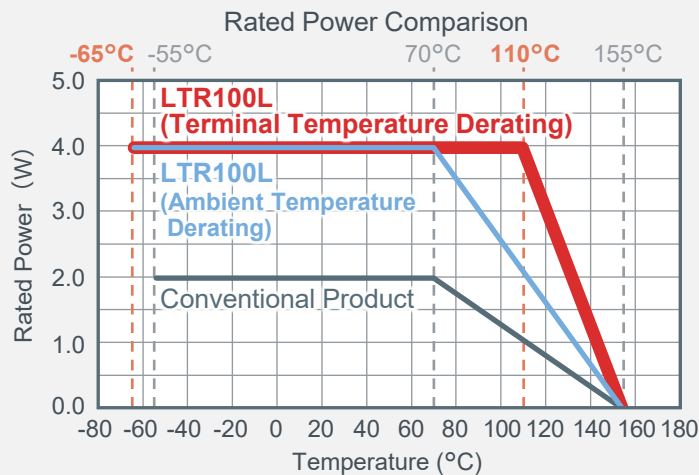
Thick-Film Shunt Resistors (Wide Terminal Type)

LTR100L

- **Ensures guaranteed rated power up to 4W**
The industry's best 3264 size thick-film shunt resistors (ROHM Sept. 2021 study)
- **Excellent temperature coefficient of resistance (TCR) within the operating temperature range**
300ppm/°C or less (at 10mΩ resistance)
- **Thick-film resistors support a wide range of resistances**
E24 series



Achieves High Rated Power up to 4W



Terminal Temperature Derating

Measurement Point: Center of Solder Fillet



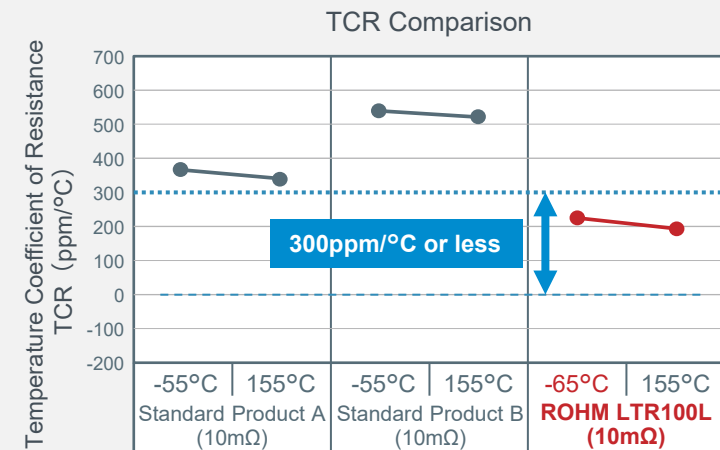
Ambient Temperature Derating

Measurement Point: Surrounding Temperature








Achieves 4W rated power - double that of conventional products
Adopting terminal temperature derating ensures 4W up to 110°C

Superior Temperature Coefficient of Resistance (TCR)



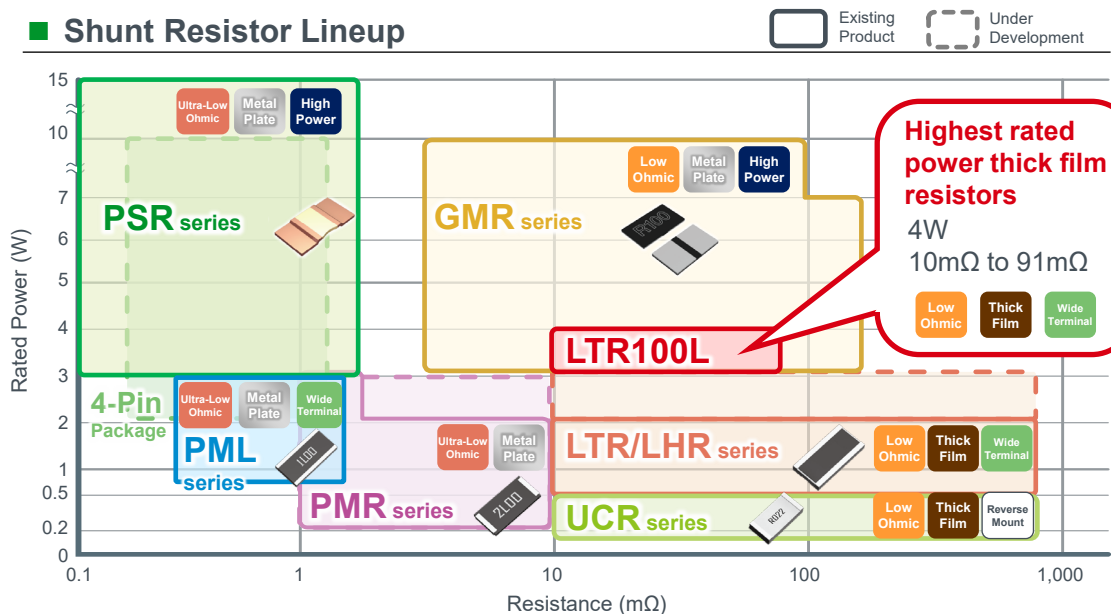
High accuracy detection contributes to improved application reliability

LTR series Lineup

Part No.	Size mm (inch)	Rated Power (70°C)	Resistance Tolerance	TCR (ppm/°C)	Resistance Range (Ω)	Operating Temp. (°C)	Automotive Grade (AEC-Q200)
LTR10 	1220 (0508)	0.5W	J (±5%) F (±1%)	±150	47m to 9.1 (E24 series)	-55 to +155	YES
LTR18 	1632 (0612)	1W		0 to 300	10m to 18m (E24 series)		
				0 to 200	20m to 47m (E24 series)		
				0 to 150	51m to 470m (E24 series)		
				±100	510m to 1 (E24 series)		
LTR50 	2550 (1020)	2W		0 to 300	10m to 18m (E24 series)		
				0 to 200	20m to 47m (E24 series)		
				0 to 150	51m to 91m (E24 series)		
				±100	100m to 910m (E24 series)		
LTR100 	3264 (1225)	2W ☆3W		J: ±200	100m to 910m (E24 series)		
				F: 0 to 150	100m to 200m (E24 series)		
New LTR100L 	3264 (1225)	4W*		F: 0 to 100	220m to 910m (E24 series)		
			0 to 300	10m to 18m (E24 series)			
			0 to 200	20m to 47m (E24 series)			
			0 to 150	51m to 91m (E24 series)			

☆: Under Development *Terminal temperature (T_k) = 110°C guaranteed

Shunt Resistor Lineup



Application Examples

Industrial Equipment

- FA Equipment
- Motor Peripheral Circuits
- Various Power Supplies

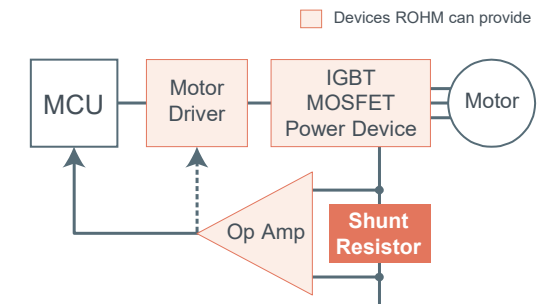
Consumer Devices

- AC
- Washing Machines
- Refrigerators
- Vacuum Cleaners

And more...

- 2-Wheel Headlamps
- EV starters, etc.

Current Detection Circuit Example



Adopting the LTR100L series as shunt resistors makes it possible to detect the output current of IGBTs, MOSFETs, motor drivers, and other devices with a high degree of accuracy and efficiency - ideal for motor speed control, protection, and other sets

The information contained in this document is current as of 1st October, 2021.



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