

Type LR Series

Key Features

- Superior quality metal film resistors with 1% tolerance and temperature coefficients down to 50 ppm. 3 case sizes are available in 0.25, 0.6, 0.75W. The LR1L series is a low ohmic value range from 0.1 to 0.82 ohm. Ideally suited where low resistance and small size are required.
- Metal film resistors have excellent stability under load and severe environmental conditions. They exhibit very low noise current and voltage coefficients. They are available in a wide range of resistance values and are suitable for general purpose and precision applications.



The resistive element comprises a thin film of nickel-chrome alloy evaporated onto a high thermal conductivity ceramic element. Metal end caps are force fitted to the element prior to spiralling to value. Tinned copper lead wires are welded to the end caps and the components are then coated. One coat of phenolic resin is followed by three coats of epoxy resin. All resistors are tested for value and tolerance.

Characteristics - Electrical

	LR0204		LR1L	LR1			LR2	LR100	LR200				
Rated Power @ 70°C (W)	0.25		0.5	0.6			0.75	1	2				
Resistance Range (Ohms)	Min	1R0	10R	R10	1R0	10R	1M1	1R0	10R	10R			
	Max	9R1	1M0	R82	9R1	1M0	10M	1M0	1M0	1M0			
Tolerance (%)	1	1	5	0.5	1	2	0.5	1	5	1	5		
Code Letter	F	F	J	D	F	G	D	F	G	F	J	F	J
Temp. Coefficient (ppm/°C)	± 100	± 100	± 200	± 100	± 50	± 100	± 100	25/50/100	25/50/100				
Selection Series	E24	E24	E12	E24	E24	E24	E24	E24	E24				
On Request		E96			E96		E96	E96	E96				
Limiting Element Voltage	200		350	350			350	500	500				
Max Permitted Element Voltage	200		350	350			350	500	500				
Max Overload Voltage	400		500	700			700	1000	1000				
Max Intermittent Overload Voltage	500		750	750			750	1000	1000				
Operating Temp. Range (°C)	-55 to +155												
Climatic Category	55/155/56												
Dielectric Strength (V)	500	700	700	700	700	700	700	700	700				
Insulation Resistance Min Dry (Mohms)	1000												

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Dimensions



Style	L*	D	d Nom	l
LR0204	3.5 +/-0.2	2.0 max	0.45	28 +/-3.0
LR1	6.2 +/-0.5	2.3 +/-0.2	0.55	28 +/-3.0
LR1L	6.2 +/-0.5	2.3 +/-0.2	0.55	28 +/-3.0
LR2	9.7 +/-0.3	3.5 +/-0.2	0.55	28 +/-3.0
LR100	12.0 max	5.0 max	0.7	28 +/-3.0
LR200	12.0 max	5.5 max	0.7	28 +/-3.0

* Length is measured in accordance with IEC 294.

Power Derating Curve



Surface Temperature Rise Vs Load



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