Metal Strip Chip Resistors (Current Detection)

Model No. LR**

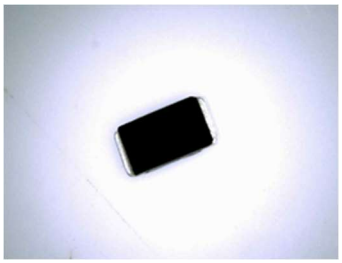
■Features

Low Resistance
Temperature Coefficient
Lead-Free, Halogen-Free

■ Applications

Current detection applications
Automotive modules
Industrial Equipment modules
Inverter/converters

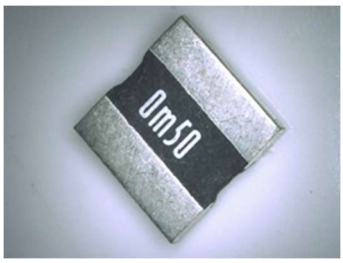
■Appearance



LR20

LR32

LR641/642/643



LR68

LR72

LR1145

■Model Number Structure

Example: LR32 R010FE

LR32	R010	F	E
Model	Nominal Resistance Value	Resistance Value Tolerance	Packaging
3216 Size	10mΩ	F: ±1%	Embossed taping

■Specifications

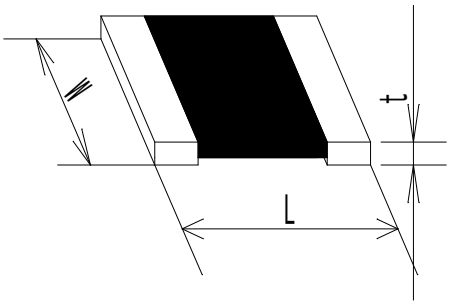
Model	Rated	Resistance Value	Resistance Temperature Coefficient	Deviation	Operating Temperature Range
LR20	0.5W	3 ≦ R ≦ 15 mΩ	≦±100ppm/° C	Class F (±1%)	−55 to +150° C
LR32	1W	1 ≦ R < 10 mΩ	≦±100 ppm/° C	Class F (±1%)	−55 to +155° C
		10 ≦ R ≦ 50 mΩ	≦±50 ppm/° C		
LR641	1W	1 ≦ R < 10 mΩ	≦±100 ppm/° C	Class F (±1%)	−55 to +155° C
		10 ≦ R ≦ 100 mΩ	≦±50 ppm/° C		
LR642	2W	1 ≦ R < 10 mΩ	≦±100 ppm/° C	Class F (±1%)	−55 to +155° C
		10 ≦ R ≦ 75 mΩ	≦±50 ppm/° C		
LR643	3W	1 ≦ R ≦ 10mΩ	≦±100 ppm/° C	Class F (±1%)	−55 to +155° C
LR68	3W	0.25, 0.5, 1.0mΩ	≦±200 ppm/° C	Class F (±1%)	−55 to +155° C
		1.5, 2.0, 2.5, 3.0 mΩ	≦±100 ppm/° C		
LR72	3W	4 ≦ R ≦ 100 mΩ	≦±50ppm/° C	Class F (±1%) Class G (±2%) Class J (±5%)	−55 to +155° C
LR1145	5W	1 ≦ R < 10 mΩ	≦±100 ppm/° C	Class F (±1%)	−55 to +155° C
		10 ≦ R ≦120mΩ	≦±50 ppm/° C		

Model No. LR**

■ Dimensions

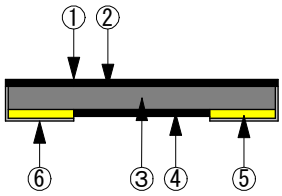
Unit: mm

Model	L	W	t
LR20	2.0±0.3	1.25±0.3	0.4 Max
LR32	3.2±0.3	1.6±0.3	0.9 Max
LR641	6.3±0.3	3.2±0.3	1.1 Max
LR642	6.3±0.3	3.2±0.3	1.1 Max
LR643	6.3±0.4	3.2±0.3	1.1 Max
LR68	6.8±0.3	6.5±0.3	1.4 Max
LR72	6.7±0.3	7.2±0.3	1.3 Max
LR1145	11.4±0.3	6.9±0.3	1.8 Max



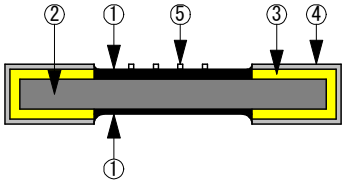
■ Product Description (Structure)

LR20



No	Name
①	Surface Coating (Polyimide)
②	Adhesive
③	Electrical Resistance Alloy
④	Insulating paint
⑤	Electrode (Cu)
⑥	Terminal Plating (Ni Base + Sn)

LR32, 641, 642, 643, 68, 72, 1145



No	Name
①	Insulating coating
②	Electrical Resistance Alloy
③	Electrode (Cu)
④	Terminal plating (Ni base + Sn)
⑤	Display