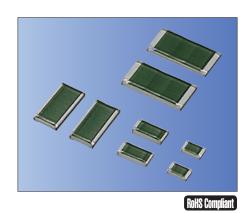
Low Resistance Chip Resistors LR Series





Features

• Suitable for current detector circuit of mobile computing device and cellular

How to Order LR 21 - R100

① Series LR

2 Size (EIA)

21	0805	50	1020
32	1206	63	2512

Resistance Value (4 digits) R047 = $47m\Omega$

 $R330 = 330 m\Omega$ $1R00=1000 m\Omega$

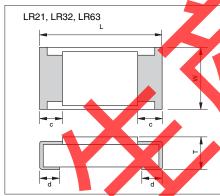
4 Tolerance

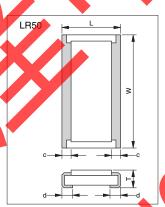
K	±10%
F	±1%

⑤ Packaging

Т	Paper Taping (LR21, LR32), 5,000 pcs./ 7"reel
U	Plastic Taping (LR50, LR63), 4,000 pcs./ 7"reel

Dimensions





	Moite	mm)
м	UL III.	1111111

	W	L	С	9	Т
LR21 (0805)	1.25+0.15	2.00±0.10	0.25±0.20	0.40±0.20	0.55±0.10
LR32 (1206)	1.55+0.15	3.10±0.10	0.25±0.20	0.4 <u>5±</u> 0.20	0.55+0.10
LR50 (1020)	5.00±0.20	2.50±0.20	0.20±0.15	0.50±0.20	0.60±0.10
LR63 (2512)	3.20±0.20	6.30±0.20	0.45±0.20	0.45±0.20	0.60±0.10

Specifications

Series Item	Rated power	Max. working voltage	Resistance tolerance	Resistance value	Working temperature	Temperature characteristics
L D01 (000E)	LR21 (0805) 0.25W (1/4W)	287mV	F: ±1%	100 to 149mΩ	–55 to +125°C	±150ppm/ °C
Lh21 (0005)		20/1117		150 to 330mΩ		±100ppm/ °C
LR32 (1206)	0.5W (1/2W)	707mV -	K: ±10%	20 to 50mΩ	55 to +125°C	±3000ppm/ °C
			F: +1%	100 to 149mΩ		±150ppm/ °C
				150 to 1000mΩ		±100ppm/ °C
LR50 (1020)	1W	316mV	F: ±1%	20 to $29m\Omega$	−55 to +125°C	±150ppm/ °C
				30 to 100m Ω		±100ppm/ °C
LR63 (2512)	1W	1000mV	F: ±1%	100 to 1000mΩ	–55 to +125°C	±100ppm/ °C

[•] No marking on chips.



Circuit design

- 1) Once application and assembly environments have been checked, the resistors may be used in conformance with the catalog and the specifications.
- 2) Please consult the manufacturer in advance when the resistors is used in devices such as: devices which deal with human life, i.e. medical devices; devices which are highy public orientated; and devices which demand a high standerd of liability.
- 3) Please use the resistors in conformance with the operating temperature provided in both the catalog and the specification
- 4) Please keep voltage under the rated voltage which is applied to the resistor.
- 5) Do not use the resistor in an environment where it might ea exceed the respective provisions concerning shock and vibrati specified in the catalog and specifide
- 6) Please do not use the resistor in the following envir
 - 1) State that water, oil, and solvent hang in resis
 - State where poisonous gas (sulfur and chlorine, etc.State that direct sunshine, radiation, and ultraviolet, etc. tc.) ex
- 7) There is a thing that resistance changes ccording the resin when the coating with the resin is g ting after confirming the characteristic. Please use resin
- 8) There is a g that resi ce changes according to flux and cleaner.
 - Please use eaner after onfirming the characteristic. and
- 9) Please consult about a lead free products.

Storage

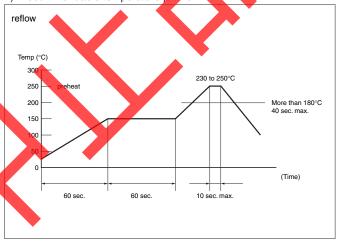
- 1) Keep storage place temperature +5 to +35°C, humidity 45 to
- 2) Please keep parts out of poisonous gas such as sulfur or chloring in the air and out of salty moisture, or they may cause rust of terminal and poor solderability. Please consider the abovementioned item after mounting.
- 3) Soldering iron

Temperature	soldering iron 300±5°C*
Time	3 sec. max. *

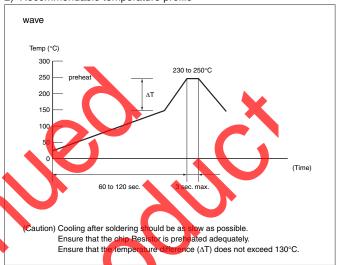
*Do not place the soldering iron on the chip. Soldering iron is 30W max.

Soldering method

1) Recommendable temperature pr



2) Recommendable temperature profile



ecommendable temperature profile 3) Pb-fi

