LCI Series

Features:

Thin Film Technology

Full Wraparound

Nickel Barrier Terminations for Solder Attachment

Resistance Values from .003Ω to 1Ω

Tolerances to ±1%

TCR to 100PPM

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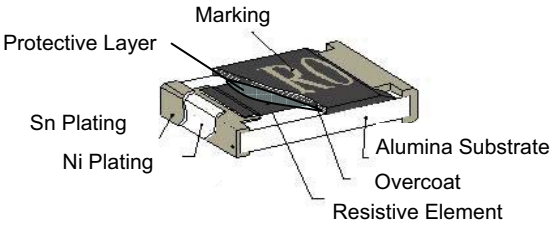
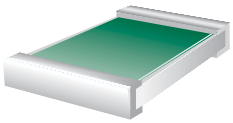
Thin Film Current Sensing Surface Mount Chip Resistors

The **LCI Series** thin film current sensing surface mount chip resistor is ideal for most applications requiring extremely low resistance. See below for **LCI Series** specifications and ordering information.

- High stability thin film resistor element
- 99% Al_2O_3 substrate material
- 100% Matte tin terminals
- Nickel barrier layer
- EIA standard values
- Tolerances to ±1%
- Passivation of resistor element



Terminal Style



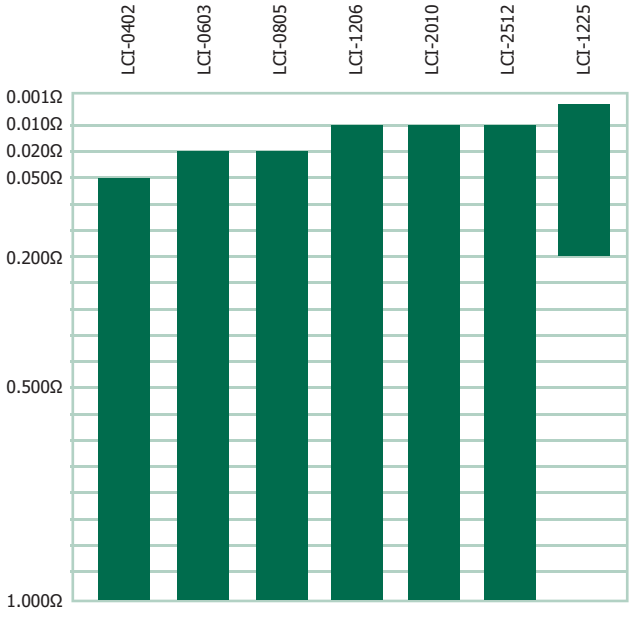
Full wraparound terminals with nickel barrier layer

RoHS COMPLIANT

Specification

Operating Temperature	-55°C to +150°C
Maximum Working Voltage	√(P*R)
Rated Power (70°C)	
LCI-0402	63mW
LCI-0603	100mW
LCI-0805	125mW
LCI-1206	250mW
LCI-2010	750mW
LCI-2512	1W
LCI-1225	3W
Resistance Tolerances	±1%, ±2% or ±5%
Attachment	Solder

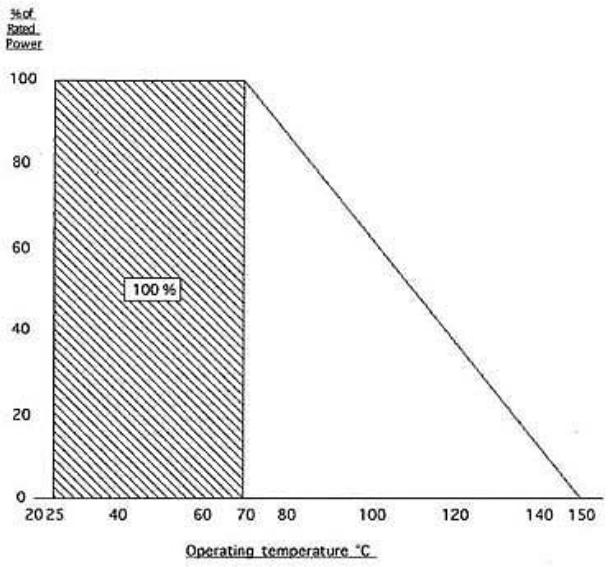
Resistance Ranges



Dimensions in inches

Part Number	Length	Width	Height	T1
LCI-0402	0.039±.002	0.020±.002	0.017max	0.008±.004
LCI-0603	0.063±.004	0.031±.004	0.022max	0.012±.008
LCI-0805	0.079±.006	0.049±.006	0.026max	0.016±.010
LCI-1206	0.120±.006	0.061±.006	0.026max	0.016±.010
LCI-2010	0.197±.008	0.096±.006	0.030max	0.020±.010
LCI-2512	0.250±.008	0.124±.006	0.028max	0.022±.010
LCI-1225	0.122±.006	0.248±.006	0.041max	0.022±.010

Power Derating Curve



Ordering Information

Example: 0402, 63mW, 0.101Ω, 1%, resistor with Nickel Barrier terminals

LCI - 0402 - R101 F

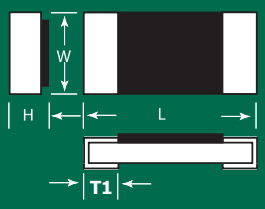
Sizes:

0402 2010
0603 2512
0805 1225
1206

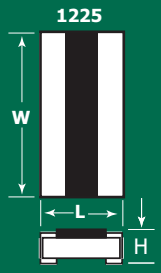
Tolerance
F = 1%
G = 2%
J = 5%

Resistance value.
Highest resistor value is 1Ω (1R00). For values below 1Ω use 'R' to indicate a decimal point before resistance value.
For example: 0.101Ω is noted as R101, 0.05Ω is noted as R050.

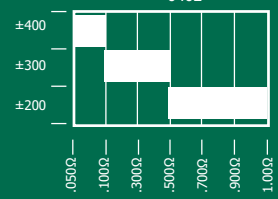
0402, 0603, 0805, 1206, 2010, 2512



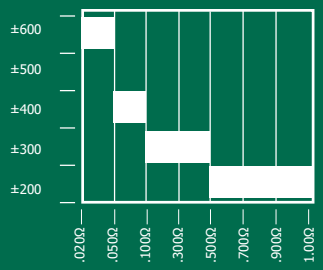
1225



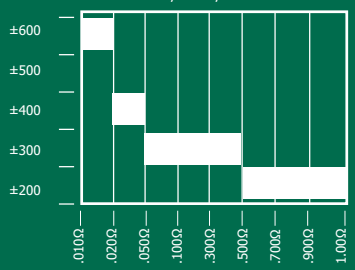
TCR (max)
0402



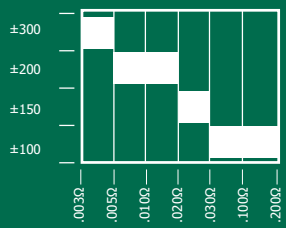
TCR (max)
0603, 0805



TCR (max)
1206, 2010, 2512



TCR (max)
1225



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