

# Wire-wound Ferrite Power Inductors LCRN series for Automotive Body & Chassis and Infotainment

Code in front of Series have been extracted from Part number, which describes the segment of products, such as kinds and characteristics.

AEC-Q200 Grade 3 (we conduct the evaluation at the test condition of Grade 3.)

\*Operating environment Temp:-40~85°C

REFLOW

AEC-Q200

## PART NUMBER

\*Operating Temp. : -40~125°C(Including self-generated heat)

L	C	R	N	J	1	0	1	4	5	G	L	1	0	0	M	N	
①				②	③			④		⑤	⑥	⑦			⑧		⑨

## ①Series

Code (1)(2)(3)(4)	
LCRN	Wire-wound Ferrite Power Inductor for Automotive Body & Chassis and Infotainment

## (1) Product Group

Code	
L	Inductors

## (2) Category

Code	Recommended equipment	Quality Grade
C	Automotive Electronic Equipment (Body & Chassis, Infotainment)	2

## ②Feature

Code	Feature
J	Bottom electrode (Pedestal type)

## ③Dimensions (L × W)

Code	Dimensions (L × W) [mm]
101	10.1 × 10.1
125	12.5 × 12.5

## ④Dimensions (H)

Code	Dimensions (H) [mm]
45	4.5
55	5.5
65	6.5
75	7.5

## ⑤Operating temperature

Code	Operating temperature [°C]
G	-40~+125

## (3) Type

Code	
R	Ferrite Wire-wound (Drum-sleeve, pedestal type)

## (4) Features, Characteristics

Code	
N	Standard Power choke

## ⑥Packaging

Code	Packaging
L	Taping

## ⑦Nominal inductance

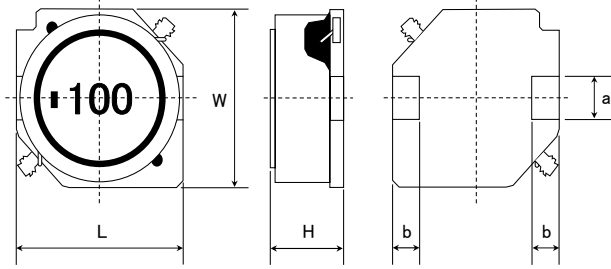
Code (example)	Nominal inductance [μH]
1R0	1.0
100	10
101	100

※R=Decimal point

## ⑧Inductance tolerance

Code	Inductance tolerance
M	±20%
N	±30%

## ⑨Internal code

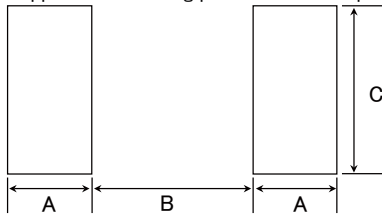
**STANDARD EXTERNAL DIMENSIONS / MINIMUM QUANTITY**


Type	L	W	H	a	b	Minimum quantity [pcs]
10145	10.1±0.3 (0.398±0.012)	10.1±0.3 (0.398±0.012)	4.5±0.35 (0.177±0.014)	2.8±0.1 (0.110±0.004)	2.0±0.15 (0.079±0.006)	2000
10155	10.1±0.3 (0.398±0.012)	10.1±0.3 (0.398±0.012)	5.5±0.35 (0.217±0.014)	2.8±0.1 (0.110±0.004)	2.0±0.15 (0.079±0.006)	2000
10165	10.1±0.3 (0.398±0.012)	10.1±0.3 (0.398±0.012)	6.5±0.35 (0.256±0.014)	2.8±0.1 (0.110±0.004)	2.0±0.15 (0.079±0.006)	2000
12555	12.5±0.3 (0.492±0.012)	12.5±0.3 (0.492±0.012)	5.5±0.35 (0.217±0.014)	3.0±0.1 (0.118±0.004)	2.0±0.15 (0.079±0.006)	2000
12565	12.5±0.3 (0.492±0.012)	12.5±0.3 (0.492±0.012)	6.5±0.35 (0.256±0.014)	3.0±0.1 (0.118±0.004)	2.0±0.15 (0.079±0.006)	2000
12575	12.5±0.3 (0.492±0.012)	12.5±0.3 (0.492±0.012)	7.5±0.35 (0.295±0.014)	3.0±0.1 (0.118±0.004)	2.0±0.15 (0.079±0.006)	2000

Unit: mm (inch)

**Recommended Land Patterns**
**Surface Mounting**

- Mounting and soldering conditions should be checked beforehand.
- Applicable soldering process to these products is reflow soldering only.



Type	A	B	C
10145	2.5	5.6	3.2
10155	2.5	5.6	3.2
10165	2.5	5.6	3.2
12555	2.5	8.6	3.2
12565	2.5	8.6	3.2
12575	2.5	8.6	3.2

Unit: mm