## 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:- $40 \sim 85^{\circ}C$ 

REFLOW AEC-Q200

■PART NUMBER

 $*Opera \underline{ting\ Temp.:\ -40} \sim 125^{\circ}C \ (Including\ self-generated\ heat)$ 

L	С	R	Ν	J	1	0	1	4	5	G	L	1	0	0	М	N		
	(1	$\overline{)}$		2	-	3		(4	4)	(5)	6		(7)		8		9	

1)Series

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

(1) Product Group

	•
Code	
L	Inductors

Code

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

(2) Category

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

(4) Features, Characteristics

Code	
N	Standard Power choke

2Feature

Code	Feature
J	Bottom electrode (Pedestal type)

3Dimensions (L × W)

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

4 Dimensions (H)

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

⑤Operating temperature

Code	Operating temperature [°C]
G	<b>-40∼+125</b>

**6**Packaging

© r doridging	
Code	Packaging
Ī	Taping

Nominal inductance

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

※R=Decimal point

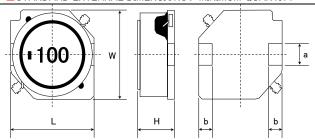
8 Inductance tolerance

9					
Code	Inductance tolerance				
М	±20%				
N	±30%				

9Internal code

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## ■STANDARD EXTERNAL DIMENSIONS / MINIMUM QUANTITY



Туре	L	W	Н	а	b	Minimum quantity [pcs]
10145	10.1±0.3	10.1±0.3	4.5±0.35	2.8±0.1	2.0±0.15	2000
10145	$(0.398 \pm 0.012)$	$(0.398 \pm 0.012)$	$(0.177 \pm 0.014)$	$(0.110 \pm 0.004)$	$(0.079 \pm 0.006)$	
10155	10.1±0.3	10.1±0.3	5.5±0.35	2.8±0.1	2.0±0.15	2000
10100	$(0.398 \pm 0.012)$	$(0.398 \pm 0.012)$	$(0.217 \pm 0.014)$	$(0.110\pm0.004)$	$(0.079 \pm 0.006)$	
10165	10.1±0.3	10.1±0.3	6.5±0.35	2.8±0.1	2.0±0.15	2000
10105	$(0.398 \pm 0.012)$	$(0.398 \pm 0.012)$	$(0.256 \pm 0.014)$	$(0.110 \pm 0.004)$	$(0.079 \pm 0.006)$	
12555	12.5±0.3	12.5±0.3	5.5±0.35	3.0±0.1	2.0±0.15	2000
12000	$(0.492\pm0.012)$	$(0.492 \pm 0.012)$	$(0.217 \pm 0.014)$	$(0.118 \pm 0.004)$	$(0.079 \pm 0.006)$	
12565	12.5±0.3	12.5±0.3	6.5±0.35	3.0±0.1	2.0±0.15	2000
12303	$(0.492\pm0.012)$	$(0.492 \pm 0.012)$	$(0.256 \pm 0.014)$	$(0.118 \pm 0.004)$	$(0.079 \pm 0.006)$	2000
12575	12.5±0.3	12.5±0.3	7.5±0.35	3.0±0.1	2.0±0.15	2000
12373	$(0.492 \pm 0.012)$	$(0.492 \pm 0.012)$	$(0.295 \pm 0.014)$	$(0.118 \pm 0.004)$	$(0.079 \pm 0.006)$	

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.



Туре	Α	В	С
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

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