

Wire-wound Metal Power Inductors MCOIL™ LCDN 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	D	N	D	2	0	2	0	K	K	T	1	R	0	M	M										
①				②				③			④			⑤			⑥			⑦			⑧			⑨

①Series

Code (1)(2)(3)(4)	
LCDN	Wire-wound Metal 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

(3) Type

Code	
D	Metal Wire-wound (Drum type)

(4) Features, Characteristics

Code	
N	Standard Power choke

②Features

Code	Feature
D	Bottom electrode (Ag × solder)

③Dimensions (L × W)

Code	Dimensions (L × W) [mm]
2020	2.0 × 2.0
3030	3.0 × 3.0
4040	4.0 × 4.0

④Dimensions (H)

Code	Dimensions (H) [mm]
KK	1.0
MK	1.2
WK	2.0

⑤Packaging

Code	Packaging
T	Taping

⑥Nominal inductance

Code (example)	Nominal inductance [μH]
R47	0.47
1R0	1.0
4R7	4.7

※R=Decimal point

⑦Inductance tolerance

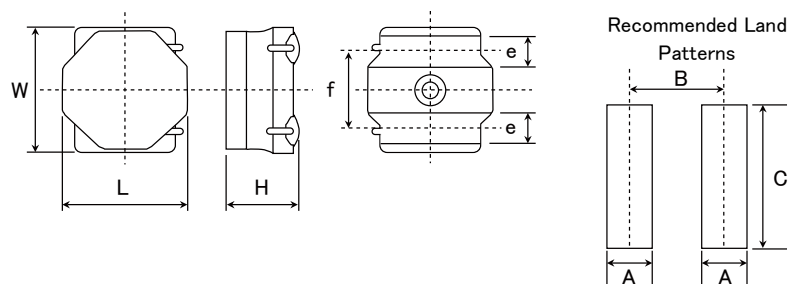
Code	Inductance tolerance
M	±20%
N	±30%

⑧Special code

Code	Special code
F	Ferrite coating
M	Metal coating

⑨Internal code

STANDARD EXTERNAL DIMENSIONS



Type	A	B	C
2020	0.65	1.35	2.0
3030	0.8	2.2	2.7
4040	1.2	2.8	3.7

Unit: mm

Type	L	W	H	e	f	Standard quantity [pcs] Taping
2020KK	2.0±0.15 (0.079±0.006)	2.0±0.15 (0.079±0.006)	1.0 max (0.039 max)	0.50±0.2 (0.02±0.008)	1.25±0.2 (0.049±0.008)	2500
2020MK	2.0±0.15 (0.079±0.006)	2.0±0.15 (0.079±0.006)	1.2 max (0.047 max)	0.50±0.2 (0.02±0.008)	1.25±0.2 (0.049±0.008)	2500
3030KK	3.0±0.1 (0.118±0.004)	3.0±0.1 (0.118±0.004)	1.0 max (0.039 max)	0.90±0.2 (0.035±0.008)	1.9±0.2 (0.075±0.008)	2000
3030MK	3.0±0.1 (0.118±0.004)	3.0±0.1 (0.118±0.004)	1.2 max (0.047 max)	0.90±0.2 (0.035±0.008)	1.9±0.2 (0.075±0.008)	2000
4040MK	4.0±0.2 (0.157±0.008)	4.0±0.2 (0.157±0.008)	1.2 max (0.047 max)	1.1±0.2 (0.043±0.008)	2.5±0.2 (0.098±0.008)	1000
4040WK	4.0±0.2 (0.157±0.008)	4.0±0.2 (0.157±0.008)	2.0 max (0.079 max)	1.1±0.2 (0.043±0.008)	2.5±0.2 (0.098±0.008)	700

Unit: mm (inch)