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.

REFLOW
AEC-Q200

AEC-Q200 Grade 3 (we conduct the evaluation at the test condition of Grade 3.)
*Operating environment Temp:-40～85℃

■PART NUMBER

*Operating Temp. : -40～125℃(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

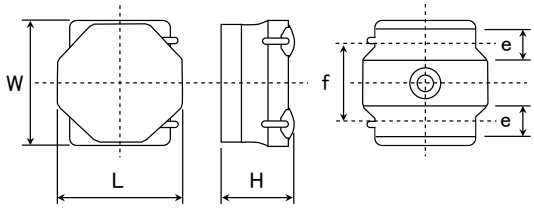
Code	Inductance tolerance
M	±20%
N	±30%

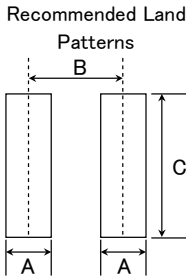
⑧Special code

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)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TAIYO YUDEN:

LCDND2020KKT1R5MM LCDND2020KKT3R3MM LCDND2020KKT4R7MM LCDND2020KKTR47MM LCDND2020KKTR68MM LCDND3030KKT100MM LCDND3030KKT1R0MM LCDND3030KKT1R5MM LCDND3030KKT3R3MM LCDND3030KKT4R7MM LCDND3030KKT6R8MM LCDND3030KKTR47MM LCDND3030MKT2R2MM LCDND3030MKTR33MM LCDND3030MKTR47MM LCDND4040WKT1R0MM LCDND2020MKTR47MM LCDND2020MKT3R3MM LCDND3030KKT2R2MM LCDND4040WKT1R5MM LCDND4040WKT3R3MM LCDND2020MKT4R7MM LCDND2020MKTR68MM LCDND4040MKT100MM LCDND3030MKTR30MM LCDND3030MKT1R5MM LCDND2020KKT1R0MM LCDND2020MKT1R0MM LCDND3030MKT3R3MM LCDND4040MKT1R0MM LCDND3030MKT1R0MM LCDND4040MKT1R5MM LCDND4040MKT2R2MF LCDND4040MKT2R2MM LCDND4040MKT3R3MM LCDND4040MKT1R2MF LCDND4040MKTR68MM LCDND4040MKT6R8MM LCDND4040MKT1R0MF LCDND2020MKT1R5MM LCDND2020KKT100MM LCDND4040WKT2R2MM LCDND3030MKT4R7MM LCDND4040WKT6R8MM LCDND4040WKTR68MM LCDND4040MKT1R5MF LCDND2020KKT2R2MM LCDND4040MKT4R7MM LCDND4040WKT4R7MM LCDND2020MKT2R2MM LCDND4040MKTR47MF LCDND4040WKT100MM LCDND4040WKTR56NM