

# Multilayer Metal Power Inductors MCOIL™ LSCN series

## for General Electronic Equipment for Consumer

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

REFLOW

■ PART NUMBER

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

L	S	C	N	A	2	0	1	2	H	K	T	1	R	0	M	
①	②	③		④	⑤		⑥		⑦		⑧					

① Series

Code (1)(2)(3)(4)	
LSCN	Multilayer Metal Power Inductor for General Electronic Equipment for Consumer

(1) Product Group

Code	
L	Inductors

(2) Category

Code	Recommended equipment	Quality Grade
S	General Electronic Equipment for Consumer	3

② Features

Code	Feature
A	L-shape electrode
B	L-shape electrode with polarity marking
D	Bottom electrode with polarity marking
E	5-surface electrode

③ Dimensions (L × W)

Code	Type (inch)	Dimensions (L × W) [mm]
1005	1005(0402)	1.0 × 0.5
1210	1210(0504)	1.25 × 1.05
1412	1412(0505)	1.4 × 1.2
1608	1608(0603)	1.6 × 0.8
2012	2012(0805)	2.0 × 1.25
2016	2016(0806)	2.0 × 1.6

④ Thickness

Code	Thickness [mm]
EK	0.50 max
EE	0.55 max
FK	0.60 max
FE	0.65 max
HK	0.80 max
KK	1.0 max

(3) Type

Code	
C	Metal Multilayer

(4) Features, Characteristics

Code	
N	Standard Power choke

⑤ Packaging

Code	Packaging
T	Taping

⑥ Nominal inductance

Code (example)	Nominal inductance [μH]
R24	0.24
R47	0.47
1R0	1.0

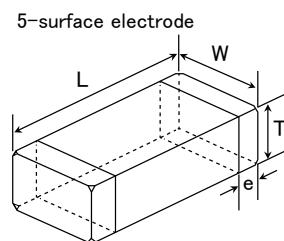
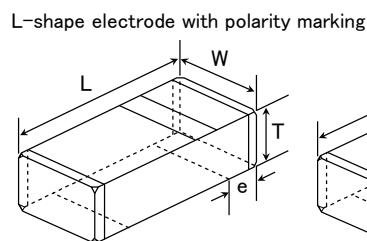
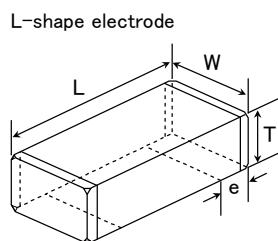
※ R=Decimal point

⑦ Inductance tolerance

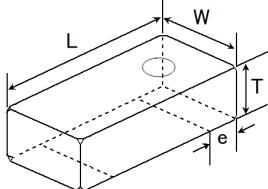
Code	Inductance tolerance
M	±20%

⑧ Internal code

## ■ STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY



Bottom electrode with polarity marking



Type	L	W	T	e	Standard quantity[pcs]	
					Paper tape	Embossed tape
1005EE (0402)	1.0±0.2 (0.039±0.008)	0.5±0.2 (0.020±0.008)	0.55 max (0.022 max)	0.25±0.15 (0.010±0.006)	10000	—
1210EK (0504)	1.25±0.1 (0.049±0.004)	1.05±0.1 (0.041±0.004)	0.50 max (0.020 max)	0.30±0.2 (0.012±0.008)	5000	—
1412FE (0505)	1.4±0.2 (0.055±0.008)	1.2±0.2 (0.047±0.008)	0.65 max (0.026 max)	0.50±0.2 (0.02±0.008)	4000	—
1608FK (0603)	1.6±0.2 (0.063±0.008)	0.8±0.2 (0.031±0.008)	0.60 max (0.024 max)	0.3±0.2 (0.012±0.008)	4000	—
1608FE (0603)	1.6±0.2 (0.063±0.008)	0.8±0.2 (0.031±0.008)	0.65 max (0.026 max)	0.3±0.2 (0.012±0.008)	4000	—
1608HK (0603)	1.6±0.2 (0.063±0.008)	0.8±0.2 (0.031±0.008)	0.80 max (0.031 max)	0.4±0.2 (0.016±0.008)	4000	—
1608KK (0603)	1.6±0.2 (0.063±0.008)	0.8±0.2 (0.031±0.008)	1.0 max (0.039 max)	0.3±0.2 (0.012±0.008)	—	3000
2012HK (0805)	2.0±0.2 (0.079±0.008)	1.25±0.2 (0.049±0.008)	0.80 max (0.031 max)	0.5±0.3 (0.02±0.012)	4000	—
2012KK (0805)	2.0±0.2 (0.079±0.008)	1.25±0.2 (0.049±0.008)	1.0 max (0.039 max)	0.5±0.3 (0.02±0.012)	—	3000
2016FE (0806)	2.0±0.2 (0.079±0.008)	1.6±0.2 (0.063±0.008)	0.65 max (0.026 max)	0.5±0.3 (0.02±0.012)	4000	—

Unit:mm(inch)

# Wire-wound Metal Power Inductors MCOIL™ LSDN series

## for General Electronic Equipment for Consumer

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

REFLOW

■ PART NUMBER

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

L	S	D	N	D	1	6	1	6	K	K	T	1	R	0	M	M	
①	②	③		④	⑤		⑥		⑦	⑧		⑨					

①Series

Code (1)(2)(3)(4)	
LSDN	Wire-wound Metal Power Inductor for General Electronic Equipment for Consumer

(1) Product Group

Code	
L	Inductors

(2) Category

Code	Recommended equipment	Quality Grade
S	General Electronic Equipment for Consumer	3

②Features

Code	Feature
D	Bottom electrode (Ag x solder)

③Dimensions (L × W)

Code	Dimensions (L × W) [mm]
1616	1.6 × 1.6
2020	2.0 × 2.0
3030	3.0 × 3.0
4040	4.0 × 4.0
5050	4.9 × 4.9

④Dimensions (H)

Code	Dimensions (H) [mm]
JE	0.95
KK	1.0
MK	1.2
PK	1.4
WK	2.0

(3) Type

Code	
D	Metal Wire-wound (Drum type)

(4) Features, Characteristics

Code	
N	Standard Power choke

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

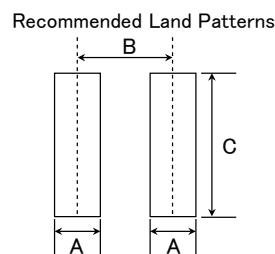
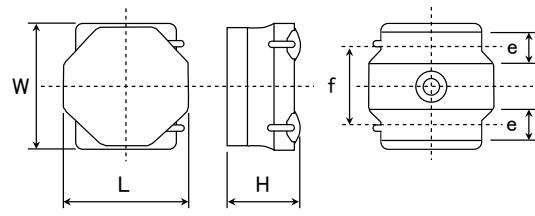
Code	Inductance tolerance
M	±20%
N	±30%

⑧Special code

Code	Special code
F	Ferrite coating
M	Metal coating

⑨Internal code

## ■ STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY



Type	A	B	C
1616	0.5	1.10	1.65
2020	0.65	1.35	2.0
3030	0.8	2.2	2.7
4040	1.2	2.8	3.7
5050	1.5	3.6	4.2

Unit:mm

Type	L	W	H	e	f	Standard quantity [pcs] Taping
1616KK	$1.64 \pm 0.1$ ( $0.065 \pm 0.004$ )	$1.64 \pm 0.1$ ( $0.065 \pm 0.004$ )	1.0 max (0.039 max)	$0.40 +0.2/-0.1$ ( $0.016 +0.008/-0.004$ )	$1.0 \pm 0.2$ ( $0.039 \pm 0.008$ )	2500
2020JE	$2.0 \pm 0.15$ ( $0.079 \pm 0.006$ )	$2.0 \pm 0.15$ ( $0.079 \pm 0.006$ )	0.95 max (0.037 max)	$0.50 \pm 0.2$ ( $0.02 \pm 0.008$ )	$1.25 \pm 0.2$ ( $0.049 \pm 0.008$ )	2500
2020KK	$2.0 \pm 0.15$ ( $0.079 \pm 0.006$ )	$2.0 \pm 0.15$ ( $0.079 \pm 0.006$ )	1.0 max (0.039 max)	$0.50 \pm 0.2$ ( $0.02 \pm 0.008$ )	$1.25 \pm 0.2$ ( $0.049 \pm 0.008$ )	2500
2020MK	$2.0 \pm 0.15$ ( $0.079 \pm 0.006$ )	$2.0 \pm 0.15$ ( $0.079 \pm 0.006$ )	1.2 max (0.047 max)	$0.50 \pm 0.2$ ( $0.02 \pm 0.008$ )	$1.25 \pm 0.2$ ( $0.049 \pm 0.008$ )	2500
3030KK	$3.0 \pm 0.1$ ( $0.118 \pm 0.004$ )	$3.0 \pm 0.1$ ( $0.118 \pm 0.004$ )	1.0 max (0.039 max)	$0.90 \pm 0.2$ ( $0.035 \pm 0.008$ )	$1.9 \pm 0.2$ ( $0.075 \pm 0.008$ )	2000
3030MK	$3.0 \pm 0.1$ ( $0.118 \pm 0.004$ )	$3.0 \pm 0.1$ ( $0.118 \pm 0.004$ )	1.2 max (0.047 max)	$0.90 \pm 0.2$ ( $0.035 \pm 0.008$ )	$1.9 \pm 0.2$ ( $0.075 \pm 0.008$ )	2000
4040JE	$4.0 \pm 0.2$ ( $0.157 \pm 0.008$ )	$4.0 \pm 0.2$ ( $0.157 \pm 0.008$ )	0.95 max (0.037 max)	$1.1 \pm 0.2$ ( $0.043 \pm 0.008$ )	$2.5 \pm 0.2$ ( $0.098 \pm 0.008$ )	1000
4040MK	$4.0 \pm 0.2$ ( $0.157 \pm 0.008$ )	$4.0 \pm 0.2$ ( $0.157 \pm 0.008$ )	1.2 max (0.047 max)	$1.1 \pm 0.2$ ( $0.043 \pm 0.008$ )	$2.5 \pm 0.2$ ( $0.098 \pm 0.008$ )	1000
4040WK	$4.0 \pm 0.2$ ( $0.157 \pm 0.008$ )	$4.0 \pm 0.2$ ( $0.157 \pm 0.008$ )	2.0 max (0.079 max)	$1.1 \pm 0.2$ ( $0.043 \pm 0.008$ )	$2.5 \pm 0.2$ ( $0.098 \pm 0.008$ )	700
5050PK	$4.9 \pm 0.2$ ( $0.193 \pm 0.008$ )	$4.9 \pm 0.2$ ( $0.193 \pm 0.008$ )	1.4 max (0.055 max)	$1.20 \pm 0.2$ ( $0.047 \pm 0.008$ )	$3.3 \pm 0.2$ ( $0.130 \pm 0.008$ )	1000

Unit:mm(inch)

# Wire-wound Ferrite Power Inductors LSXN/LSXP series

## for General Electronic Equipment for Consumer

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

REFLOW

## ■ PART NUMBER

\* Operating Temp.: -25~+120°C (LSXN 4040/5050/6060/8080: -25~+125°C) (Including self-generated heat)

L	S	X	N	D	4	0	4	0	K	K	L	1	0	0	M	D	G
①	②	③		④	⑤	⑥	⑦		⑧								

## ① Series

Code (1)(2)(3)(4)	
LSXN	Wire-wound Ferrite Power Inductor for General Electronic Equipment for Consumer
LSXP	Wire-wound Ferrite Power Inductor for General Electronic Equipment for Consumer

## (1) Product Group

Code	
L	Inductors

## (2) Category

Code	Recommended equipment	Quality Grade
S	General Electronic Equipment for Consumer	3

## ② Features

Code	Feature
D	Bottom electrode (Ag × solder)
E	Bottom electrode (Cu × solder)
H	Bottom electrode (Frame type)

## ③ Dimensions (L × W)

Code	Dimensions (L × W) [mm]
2020	2.0 × 2.0
2424	2.4 × 2.4
3030	3.0 × 3.0
4040	4.0 × 4.0
5050	5.0 × 5.0
6060	6.0 × 6.0
8080	8.0 × 8.0
YE	4.5

## ④ Dimensions (H)

Code	Dimensions (H) [mm]
KK	1.0
MK	1.2
PK	1.4
QK	1.5
TK	1.8
WK	2.0
WD	2.4
WE	2.5
WH	2.8
XK	3.0
XA	3.1
YK	4.0
YA	4.1
YB	4.2

## (3) Type

Code	
X	Ferrite Wire-wound (Drum type)

## (4) Features, Characteristics

Code	
N	Standard Power choke
P	High current power choke

## ⑤ Packaging

Code	Packaging
T	Taping
L	Taping

## ⑥ Nominal inductance

Code (example)	Nominal inductance [μH]
2R2	2.2
100	10
101	100

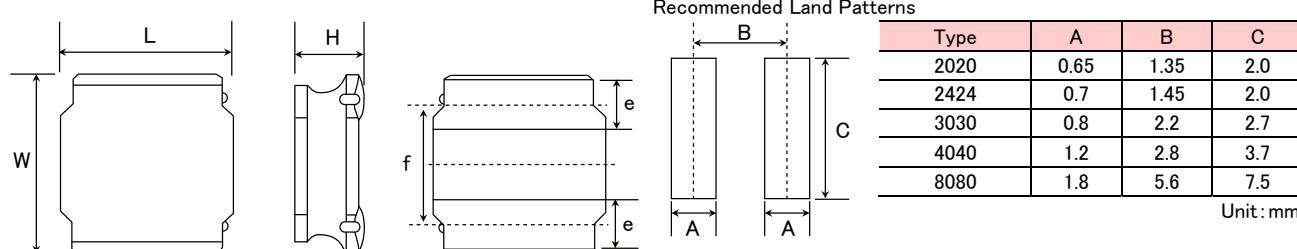
※R=Decimal point

## ⑦ Inductance tolerance

Code	Inductance tolerance
M	±20%
N	±30%

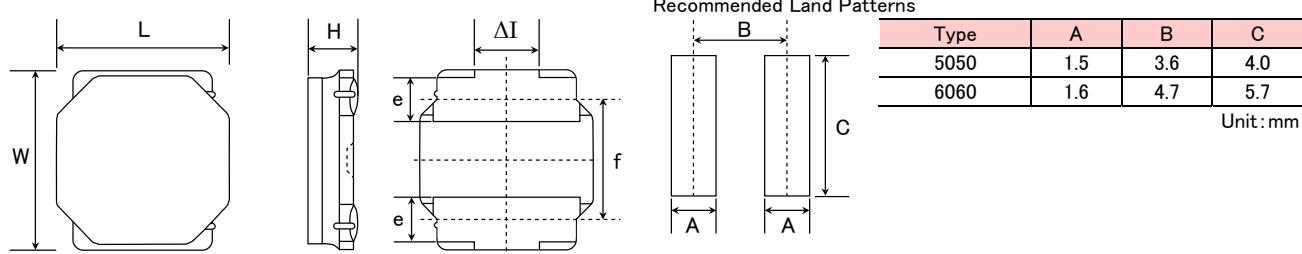
## ⑧ Internal code

## ■ STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY



Type	L	W	H	e	f	Standard quantity [pcs] Taping
2020KK	2.0±0.1 (0.079±0.004)	2.0±0.1 (0.079±0.004)	1.0 max (0.039 max)	0.5±0.2 (0.020±0.008)	1.25±0.2 (0.050±0.008)	2500
2020MK	2.0±0.1 (0.079±0.004)	2.0±0.1 (0.079±0.004)	1.2 max (0.047 max)	0.5±0.2 (0.020±0.008)	1.25±0.2 (0.050±0.008)	2500
2424KK	2.4±0.1 (0.095±0.004)	2.4±0.1 (0.095±0.004)	1.0 max (0.039 max)	0.6±0.2 (0.024±0.008)	1.45±0.2 (0.057±0.008)	2500
2424MK	2.4±0.1 (0.095±0.004)	2.4±0.1 (0.095±0.004)	1.2 max (0.047 max)	0.6±0.2 (0.024±0.008)	1.45±0.2 (0.057±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)	0.9±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)	0.9±0.2 (0.035±0.008)	1.9±0.2 (0.075±0.008)	2000
3030QK	3.0±0.1 (0.118±0.004)	3.0±0.1 (0.118±0.004)	1.5 max (0.059 max)	0.9±0.2 (0.035±0.008)	1.9±0.2 (0.075±0.008)	2000
4040KK	4.0±0.2 (0.158±0.008)	4.0±0.2 (0.158±0.008)	1.0 max (0.039 max)	1.1±0.2 (0.043±0.008)	2.5±0.2 (0.098±0.008)	5000
4040MK	4.0±0.2 (0.158±0.008)	4.0±0.2 (0.158±0.008)	1.2 max (0.047 max)	1.1±0.2 (0.043±0.008)	2.5±0.2 (0.098±0.008)	4500
4040TK	4.0±0.2 (0.158±0.008)	4.0±0.2 (0.158±0.008)	1.8 max (0.071 max)	1.1±0.2 (0.043±0.008)	2.5±0.2 (0.098±0.008)	3500
8080XK	8.0±0.2 (0.315±0.008)	8.0±0.2 (0.315±0.008)	3.0 max (0.118 max)	1.60±0.3 (0.063±0.012)	5.6±0.3 (0.22±0.012)	1000
8080YK	8.0±0.2 (0.315±0.008)	8.0±0.2 (0.315±0.008)	4.0 max (0.158 max)	1.60±0.3 (0.063±0.012)	5.6±0.3 (0.22±0.012)	1000
8080YB	8.0±0.2 (0.315±0.008)	8.0±0.2 (0.315±0.008)	4.2 max (0.165 max)	1.60±0.3 (0.063±0.012)	5.6±0.3 (0.22±0.012)	1000

Unit:mm (inch)



Type	L	W	H	e	f	ΔI	Standard quantity [pcs] Taping
5050KK	4.9±0.2 (0.193±0.008)	4.9±0.2 (0.193±0.008)	1.0 max (0.039 max)	1.2±0.2 (0.047±0.008)	3.3±0.2 (0.130±0.008)	1.3typ (0.051typ)	1000
5050MK	4.9±0.2 (0.193±0.008)	4.9±0.2 (0.193±0.008)	1.2 max (0.047 max)	1.2±0.2 (0.047±0.008)	3.3±0.2 (0.130±0.008)	1.3typ (0.051typ)	1000
5050PK	4.9±0.2 (0.193±0.008)	4.9±0.2 (0.193±0.008)	1.4 max (0.055 max)	1.2±0.2 (0.047±0.008)	3.3±0.2 (0.130±0.008)	1.3typ (0.051typ)	1000
5050WK	4.9±0.2 (0.193±0.008)	4.9±0.2 (0.193±0.008)	2.0 max (0.079 max)	1.2±0.2 (0.047±0.008)	3.3±0.2 (0.130±0.008)	1.3typ (0.051typ)	800
5050WD	4.9±0.2 (0.193±0.008)	4.9±0.2 (0.193±0.008)	2.4 max (0.095 max)	1.2±0.2 (0.047±0.008)	3.3±0.2 (0.130±0.008)	1.3typ (0.051typ)	2500
5050WE	4.9±0.2 (0.193±0.008)	4.9±0.2 (0.193±0.008)	2.5 max (0.098 max)	1.2±0.2 (0.047±0.008)	3.3±0.2 (0.130±0.008)	1.3typ (0.051typ)	2500
5050XK	4.9±0.2 (0.193±0.008)	4.9±0.2 (0.193±0.008)	3.0 max (0.118 max)	1.2±0.2 (0.047±0.008)	3.3±0.2 (0.130±0.008)	1.3typ (0.051typ)	500
5050XA	4.9±0.2 (0.193±0.008)	4.9±0.2 (0.193±0.008)	3.1 max (0.122 max)	1.2±0.2 (0.047±0.008)	3.3±0.2 (0.130±0.008)	1.3typ (0.051typ)	500
5050YK	4.9±0.2 (0.193±0.008)	4.9±0.2 (0.193±0.008)	4.0 max (0.158 max)	1.2±0.2 (0.047±0.008)	3.3±0.2 (0.130±0.008)	1.3typ (0.051typ)	1500
5050YA	4.9±0.2 (0.193±0.008)	4.9±0.2 (0.193±0.008)	4.1 max (0.161 max)	1.2±0.2 (0.047±0.008)	3.3±0.2 (0.130±0.008)	1.3typ (0.051typ)	1500
6060KK	6.0±0.2 (0.236±0.008)	6.0±0.2 (0.236±0.008)	1.0 max (0.039 max)	1.35±0.2 (0.053±0.008)	4.0±0.2 (0.158±0.008)	2.3typ (0.091typ)	1000
6060MK	6.0±0.2 (0.236±0.008)	6.0±0.2 (0.236±0.008)	1.2 max (0.047 max)	1.35±0.2 (0.053±0.008)	4.0±0.2 (0.158±0.008)	2.3typ (0.091typ)	1000
6060PK	6.0±0.2 (0.236±0.008)	6.0±0.2 (0.236±0.008)	1.4 max (0.055 max)	1.35±0.2 (0.053±0.008)	4.0±0.2 (0.158±0.008)	2.3typ (0.091typ)	1000
6060WK	6.0±0.2 (0.236±0.008)	6.0±0.2 (0.236±0.008)	2.0 max (0.079 max)	1.35±0.2 (0.053±0.008)	4.0±0.2 (0.158±0.008)	2.3typ (0.091typ)	2500
6060WH	6.0±0.2 (0.236±0.008)	6.0±0.2 (0.236±0.008)	2.8 max (0.110 max)	1.35±0.2 (0.053±0.008)	4.0±0.2 (0.158±0.008)	2.3typ (0.091typ)	2000
6060YE	6.0±0.2 (0.236±0.008)	6.0±0.2 (0.236±0.008)	4.5 max (0.177 max)	1.35±0.2 (0.053±0.008)	4.0±0.2 (0.158±0.008)	2.3typ (0.091typ)	1500

Unit:mm (inch)

# Wire-wound Ferrite Power Inductors LSXBH10050

## for General Electronic Equipment for Consumer

## ■ PART NUMBER

\*Operating Temp.: -25~+105°C (Including self-generated heat)

REFLOW

L	S	X	B	H	1	0	0	5	0	H	L	1	0	0	M	
①	②	③	④	⑤	⑥	⑦	⑧	⑨								

## ① Series

Code (1)(2)(3)(4)	
LSXB	Wire-wound Ferrite Power Inductor for General Electronic Equipment for Consumer

## (1) Product Group

Code	
L	Inductors

## (3) Type

Code	
X	Ferrite Wire-wound (Drum type)

## (2) Category

Code	Recommended equipment	Quality Grade
S	General Electronic Equipment for Consumer	3

## (4) Features, Characteristics

Code	
B	Standard

## ② Features

Code	Feature
H	Bottom electrode (Frame type)

## ⑥ Packaging

Code	Packaging
L	Taping

## ③ 尺寸(L×W)

Code	Dimensions (L × W) [mm]
100	10.0 × 9.8

## ⑦ Nominal inductance

Code (example)	Nominal inductance [μH]
1R3	1.3
100	10
101	100

※R=Decimal point

## ④ 尺寸(H)

Code	Dimensions (H) [mm]
50	5.0

## ⑧ Inductance tolerance

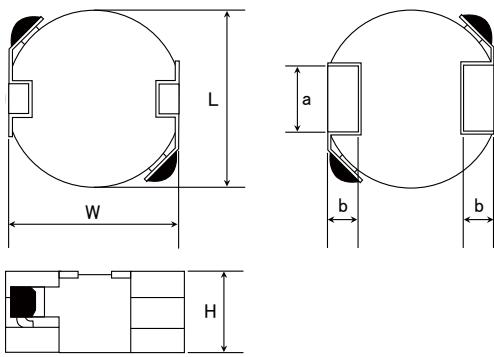
Code	Inductance tolerance
M	±20%
N	±30%

## ⑤ Operating temperature

Code	Operating temperature [°C]
H	-25~+105

## ⑨ Internal code

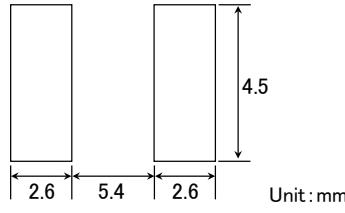
## ■ STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY



## Recommended Land Patterns

## Surface Mounting

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



Type	L	W	H	a	b	Standard quantity [pcs]
10050	10.0 ± 0.3 (0.394 ± 0.012)	9.8 ± 0.5 (0.386 ± 0.020)	5.0 max (0.197 max)	4.0 (0.16)	1.75 (0.07)	500

Unit: mm (inch)

▶ This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our specification. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our Web site (<http://www.ty-top.com/>).

# Wire-wound Ferrite Power Inductors LSRN series

## for General Electronic Equipment for Consumer

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

REFLOW

## ■ PART NUMBER

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

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

## ①Series

Code (1)(2)(3)(4)	
LSRN	Wire-wound Ferrite Power Inductor for General Electronic Equipment for Consumer

## (1) Product Group

Code	
L	Inductors

## (2) Category

Code	Recommended equipment	Quality Grade
S	General Electronic Equipment for Consumer	3

## 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

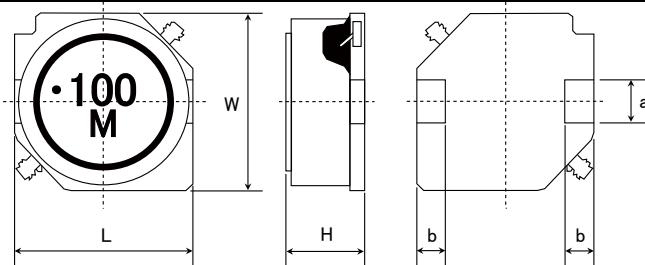
※R=小数点

## ⑧Inductance tolerance

Code	Inductance tolerance
M	±20%
N	±30%

## ⑨Internal code

## ■ STANDARD EXTERNAL DIMENSIONS / MINIMUM QUANTITY



※101□□ type does not have the indication of the Manufacturing date code.

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

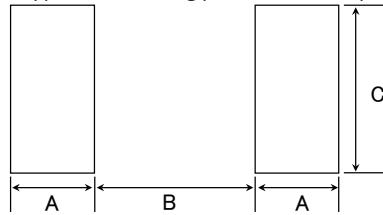
Unit:mm(inch)

## 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

# Wire-wound Ferrite Power Inductors LSQPB series

## for General Electronic Equipment for Consumer

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

REFLOW

## ■ PART NUMBER

\* Operating Temp.: -40~+105°C (Including self-generated heat)

L	S	Q	P	B	2	5	1	8	1	2	T	2	R	2	M	
①	②	③	④	⑤	⑥	⑦	⑧									

## ①Series

Code (1)(2)(3)(4)	
LSQP	Wire-wound Ferrite Power Inductor for General Electronic Equipment for Consumer

## (1) Product Group

Code	
L	Inductors

## (2) Category

Code	Recommended equipment	Quality Grade
S	General Electronic Equipment for Consumer	3

## ②Features

Code	Feature
B	L-shape electrode (Ag-resin × Sn-plate)

## ③Dimensions (L × W)

Code	Type (inch)	Dimensions (L × W) [mm]
1608	1608(0603)	1.6 × 0.8
2012	2012(0805)	2.0 × 1.25
2016	2016(0806)	2.0 × 1.6
2518	2518(1007)	2.5 × 1.8
3225	3225(1210)	3.2 × 2.5

## ④Dimensions (T)

Code	Dimensions (T) [mm]
07	0.7
08	0.8
10	1.0
12	1.2
14	1.4
15	1.5
16	1.6
17	1.7
18	1.8

## (3) Type

Code	
Q	Ferrite Wire-wound (Horizontal type)

## (4) Features, Characteristics

Code	
P	High current power choke

## ⑤Packaging

Code	Packaging
T	Taping

## ⑥Nominal inductance

Code (example)	Nominal inductance [μH]
R20	0.2
1R0	1.0
100	10
101	100

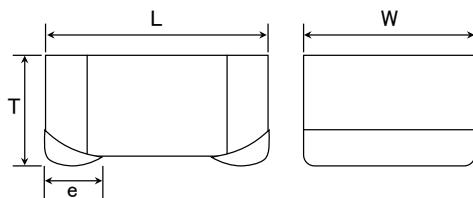
※R=Decimal point

## ⑦Inductance tolerance

Code	Inductance tolerance
K	±10%
M	±20%

## ⑧Internal code

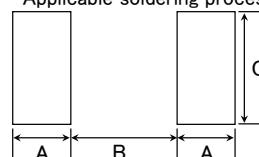
## ■ STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY



## 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
1608	0.55	0.70	1.00
2012	0.60	1.00	1.45
2016	0.60	1.00	1.80
2518	0.60	1.50	2.00
3225	0.85	1.70	2.70

Unit:mm

Type	L	W	T	e	Standard quantity[pcs]	
					Paper tape	Embossed tape
160807	1.6±0.2 (0.063±0.008)	0.8±0.2 (0.031±0.008)	0.7 max (0.028 max)	0.45±0.15 (0.016±0.006)	—	3000
160808	1.6±0.2 (0.063±0.008)	0.8±0.2 (0.031±0.008)	0.8±0.2 (0.031±0.008)	0.45±0.15 (0.016±0.006)	—	3000
201210	2.0±0.2 (0.079±0.008)	1.25±0.2 (0.049±0.008)	1.0 max (0.040 max)	0.5±0.2 (0.020±0.008)	—	3000
201214	2.0±0.2 (0.079±0.008)	1.25±0.2 (0.049±0.008)	1.4 max (0.056 max)	0.5±0.2 (0.020±0.008)	—	2000
201616	2.0±0.2 (0.079±0.008)	1.6±0.2 (0.063±0.008)	1.6±0.2 (0.063±0.008)	0.5±0.2 (0.020±0.008)	—	2000
251810	2.5±0.2 (0.098±0.008)	1.8±0.2 (0.071±0.008)	1.0 max (0.040 max)	0.5±0.2 (0.020±0.008)	—	3000
251812	2.5±0.2 (0.098±0.008)	1.8±0.2 (0.071±0.008)	1.2 max (0.048 max)	0.5±0.2 (0.020±0.008)	—	3000
251815	2.5±0.2 (0.098±0.008)	1.8±0.2 (0.071±0.008)	1.5 max (0.060 max)	0.5±0.2 (0.020±0.008)	—	2000
251818	2.5±0.2 (0.098±0.008)	1.8±0.2 (0.071±0.008)	1.8±0.2 (0.071±0.008)	0.5±0.2 (0.020±0.008)	—	2000
322517	3.2±0.2 (0.126±0.008)	2.5±0.2 (0.098±0.008)	1.7 max (0.068 max)	0.75±0.2 (0.03±0.008)	—	2000

Unit:mm(inch)

# Wire-wound Ferrite Power Inductors LSQN/LSQPA series

## for General Electronic Equipment for Consumer

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

REFLOW

## ■ PART NUMBER

\* Operating Temp.: -40~+105°C (Including self-generated heat)

L	S	Q	N	A	2	0	1	2	1	2	T	1	0	0	M		
①	②	③		④	⑤		⑥		⑦	⑧	⑨						

## ① Series

Code (1)(2)(3)(4)	
LSQN	Wire-wound Ferrite Power Inductor for General Electronic Equipment for Consumer
LSQP	Wire-wound Ferrite Power Inductor for General Electronic Equipment for Consumer

## (1) Product Group

Code	
L	Inductors

## (2) Category

Code	Recommended equipment	Quality Grade
S	General Electronic Equipment for Consumer	3

## ② Features

Code	Feature
A	5-surface electrode (Ag-resin × Sn-plate)
B	L-shape electrode (Ag-resin × Sn-plate)

## ③ Dimensions (L × W)

Code	Type (inch)	Dimensions (L × W) [mm]
1608	1608(0603)	1.6 × 0.8
2012	2012(0805)	2.0 × 1.25
2016	2016(0806)	2.0 × 1.6
2518	2518(1007)	2.5 × 1.8
3225	3225(1210)	3.2 × 2.5

## ④ Dimensions (T)

Code	Dimensions (T) [mm]
08	0.8
09	0.9
12	1.25
16	1.6
18	1.8
25	2.5

## (3) Type

Code	
Q	Ferrite Wire-wound (Horizontal type)

## (4) Features, Characteristics

Code	
N	Standard Power choke
P	High current power choke

## ⑤ Packaging

Code	Packaging
T	Taping

## ⑥ Nominal inductance

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

※R=Decimal point

## ⑦ Inductance tolerance

Code	Inductance tolerance
K	±10%
M	±20%

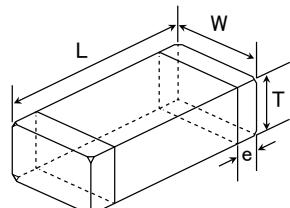
## ⑧ Special code

Code	Special code
R	Low Rdc type

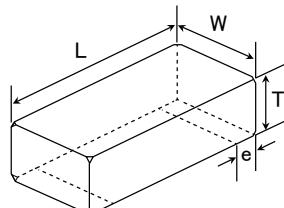
## ⑨ Internal code

## ■ STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY

5-surface electrode



L-shape electrode

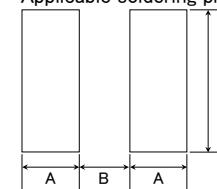


## Recommended Land Patterns

## Surface Mounting

• Mounting and soldering conditions should be checked beforehand.

• Applicable soldering process to these products is reflow soldering only.



Type	A	B	C
B1608	0.55	0.7	1.0
A2012	0.60	1.0	1.45
A2016	0.60	1.0	1.8
A2518	0.60	1.5	2.0
A3225	0.85	1.7	2.7

Unit:mm

Type	L	W	T	e	Standard quantity[pcs]	
					Paper tape	Embossed tape
B160808	1.6±0.2 (0.063±0.008)	0.8±0.2 (0.031±0.008)	0.8±0.2 (0.031±0.008)	0.45±0.15 (0.016±0.006)	—	3000
A201209	2.0±0.2 (0.079±0.008)	1.25±0.2 (0.049±0.008)	0.9±0.1 (0.035±0.004)	0.5±0.2 (0.020±0.008)	4000	—
A201212	2.0±0.2 (0.079±0.008)	1.25±0.2 (0.049±0.008)	1.25±0.2 (0.049±0.008)	0.5±0.2 (0.020±0.008)	—	3000
A201616	2.0±0.2 (0.079±0.008)	1.6±0.2 (0.063±0.008)	1.6±0.2 (0.063±0.008)	0.5±0.2 (0.020±0.008)	—	2000
A251818	2.5±0.2 (0.098±0.008)	1.8±0.2 (0.071±0.008)	1.8±0.2 (0.071±0.008)	0.5±0.2 (0.020±0.008)	—	2000
A322525	3.2±0.2 (0.126±0.008)	2.5±0.2 (0.098±0.008)	2.5±0.2 (0.098±0.008)	0.6±0.3 (0.024±0.012)	—	1000

Unit:mm(inch)

# Wire-wound Ferrite Inductors LSQB/LSQC/LSQE series

## for General Electronic Equipment for Consumer

シリーズ前の記号は、品番から抽出したものであり、製品の種類や特性などの区分を示すためのものです。

REFLOW

■ PART NUMBER

\* Operating Temp.: -40~+105°C (Including self-generated heat)

L	S	Q	B	A	2	0	1	2	1	2	T	1	0	0	M		
①	②	③	④	⑤	⑥	⑦	⑧	⑨									

① Series

Code (1)(2)(3)(4)	
LSQB	Wire-wound Ferrite Inductor for General Electronic Equipment for Consumer
LSQC	Wire-wound Ferrite Inductor for General Electronic Equipment for Consumer
LSQE	Wire-wound Ferrite Inductor for General Electronic Equipment for Consumer

(1) Product Group

Code	
L	Inductors

(3) Type

Code	
Q	Ferrite Wire-wound (Horizontal type)

(2) Category

Code	Recommended equipment	Quality Grade
S	General Electronic Equipment for Consumer	3

(4) Features, Characteristics

Code	
B	Standard
C	High current
E	Low Rdc

② Features

Code	Feature
A	5-surface electrode (Ag-resin × Sn-plate)
B	L-shape electrode (Ag-resin × Sn-plate)

⑤ Packaging

Code	Packaging
T	Taping

③ Dimensions (L × W)

Code	Type (inch)	Dimensions (L × W) [mm]
1608	1608(0603)	1.6 × 0.8
2012	2012(0805)	2.0 × 1.25
2016	2016(0806)	2.0 × 1.6
2518	2518(1007)	2.5 × 1.8
3218	3218(1207)	3.2 × 1.8
3225	3225(1210)	3.2 × 2.5

⑥ Nominal inductance

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

※R=Decimal point

④ Dimensions (T)

Code	Dimensions (T) [mm]
08	0.8
12	1.25
16	1.6
18	1.8
25	2.5

⑦ Inductance tolerance

Code	Inductance tolerance
K	±10%
M	±20%

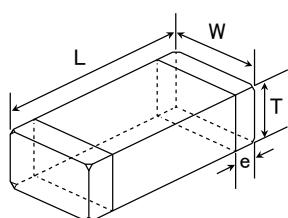
⑧ Special code

Code	Special code
R	Low Rdc type

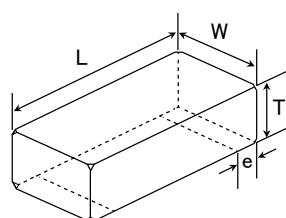
⑨ Internal code

## ■ STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY

5-surface electrode



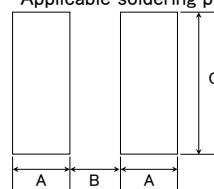
L-shape electrode



## 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
A1608	0.55	0.7	0.9
B1608	0.55	0.7	1.0
A2012	0.60	1.0	1.45
A2016	0.60	1.0	1.8
A2518	0.60	1.5	2.0
A3218	0.85	1.7	2.0
A3225	0.85	1.7	2.7

Unit:mm

Type	L	W	T	e	Standard quantity[pcs]	
					Paper tape	Embossed tape
A160808	1.6±0.1 (0.063±0.004)	0.8±0.1 (0.031±0.004)	0.8±0.1 (0.031±0.004)	0.35±0.15 (0.014±0.006)	4000	—
B160808	1.6±0.2 (0.063±0.008)	0.8±0.2 (0.031±0.008)	0.8±0.2 (0.031±0.008)	0.45±0.15 (0.016±0.006)	—	3000
A201212	2.0±0.2 (0.079±0.008)	1.25±0.2 (0.049±0.008)	1.25±0.2 (0.049±0.008)	0.5±0.2 (0.020±0.008)	—	3000
A201616	2.0±0.2 (0.079±0.008)	1.6±0.2 (0.063±0.008)	1.6±0.2 (0.063±0.008)	0.5±0.2 (0.020±0.008)	—	2000
A251818	2.5±0.2 (0.098±0.008)	1.8±0.2 (0.071±0.008)	1.8±0.2 (0.071±0.008)	0.5±0.2 (0.020±0.008)	—	2000
A321818	3.2±0.2 (0.126±0.008)	1.8±0.2 (0.071±0.008)	1.8±0.2 (0.071±0.008)	0.6±0.2 (0.024±0.008)	—	2000
A322525	3.2±0.2 (0.126±0.008)	2.5±0.2 (0.098±0.008)	2.5±0.2 (0.098±0.008)	0.6±0.3 (0.024±0.012)	—	1000

Unit:mm(inch)

# Wire-wound Ferrite Inductors for Signal Lines LSQM series

## for General Electronic Equipment for Consumer

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

REFLOW

### PART NUMBER

\* Operating Temp.: -40~+105°C (Including self-generated heat)

L	S	Q	M	B	2	0	1	6	1	6	T	1	0	0	J		
①	②	③	④	⑤	⑥	⑦	⑧										

### ① Series

Code (1)(2)(3)(4)	
LSQM	Wire-wound Ferrite Inductor for General Electronic Equipment for Consumer

### (1) Product Group

Code	
L	Inductors

### (2) Category

Code	Recommended equipment	Quality Grade
S	General Electronic Equipment for Consumer	3

### ② Features

Code	Feature
B	L-shape electrode (Ag-resin × Sn-plate)

### ③ Dimensions (L × W)

Code	Type (inch)	Dimensions (L × W) [mm]
2016	2016(0806)	2.0 × 1.6

### ④ Dimensions (T)

Code	Dimensions (T) [mm]
16	1.6

### (3) Type

Code	
Q	Ferrite Wire-wound (Horizontal type)

### (4) Features, Characteristics

Code	
M	Signal line

### ⑤ Packaging

Code	Packaging
T	Taping

### ⑥ Nominal inductance

Code (example)	Nominal inductance [ $\mu$ H]
R12	0.12
1R0	1.0
100	10
101	100

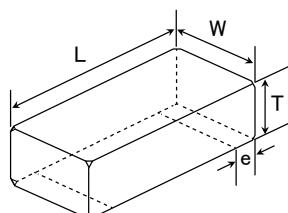
※R=Decimal point

### ⑦ Inductance tolerance

Code	Inductance tolerance
J	$\pm 5\%$

### ⑧ Internal code

### PART NUMBER



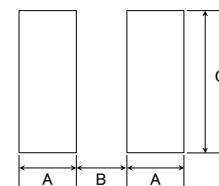
#### Recommended Land Patterns

##### Surface Mounting

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

Type	A	B	C
B2016	0.6	1.0	1.8

Unit:mm



Type	L	W	T	e	Standard quantity [pcs]	
					Paper tape	Embossed tape
B201616	2.0±0.2 (0.08±0.008)	1.6±0.2 (0.063±0.008)	1.6±0.2 (0.063±0.008)	0.5±0.2 (0.02±0.008)	—	2000

Unit:mm(inch)

This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our specification. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our Web site (<http://www.ty-top.com/>).

# Wire-wound Metal Power Inductors MCOIL™ LSAN series

## for General Electronic Equipment for Consumer

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

REFLOW

■ PART NUMBER

\* Operating Temp.: -40~+105°C (Including self-generated heat)

L	S	A	N	B	2	0	1	6	K	K	T	1	R	0	M	
①	②	③		④	⑤	⑥	⑦	⑧								

① Series

Code (1)(2)(3)(4)	
LSAN	Wire-wound Metal Power Inductor for General Electronic Equipment for Consumer

(1) Product Group

Code	
L	Inductors

(2) Category

Code	Recommended equipment	Quality Grade
S	General Electronic Equipment for Consumer	3

② Features

Code	Feature
B	L-shape electrode (Ag-resin × Sn-plate)

③ Dimensions (L × W)

Code	Type (inch)	Dimensions (L × W) [mm]
2016	2016(0806)	2.0 × 1.6
2520	2520(1008)	2.5 × 2.0

④ Dimensions (T)

Code	Dimensions (T) [mm]
KK	1.0
MK	1.2

(3) Type

Code	
A	Metal Wire-wound

(4) Features, Characteristics

Code	
N	Standard Power choke

⑤ Packaging

Code	Packaging
T	Taping

⑥ Nominal inductance

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

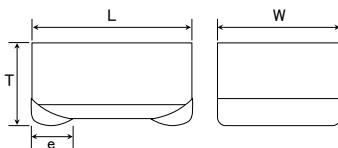
※ R=Decimal point

⑦ Inductance tolerance

Code	Inductance tolerance
M	±20%

⑧ Internal code

■ STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY

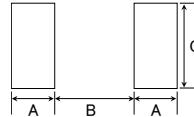


Recommended Land Patterns

Surface Mounting

▪ Mounting and soldering conditions should be checked beforehand.

▪ Applicable soldering process to these products is reflow soldering only.



Type	A	B	C
2016	0.7	0.8	1.8
2520	0.8	1.2	2.0

Unit:mm

Type	L	W	T	e	Standard quantity [pcs] Taping
2016KK	2.0±0.1 (0.079±0.004)	1.6±0.1 (0.063±0.004)	1.0 max (0.039 max)	0.5±0.3 (0.020±0.012)	3000
2520KK	2.5±0.2 (0.098±0.008)	2.0±0.2 (0.079±0.008)	1.0 max (0.039 max)	0.5±0.3 (0.020±0.012)	3000
2520MK	2.5±0.2 (0.098±0.008)	2.0±0.2 (0.079±0.008)	1.2 max (0.047 max)	0.5±0.3 (0.020±0.012)	3000

Unit:mm (inch)

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# Wire-wound Metal Power Inductors MCOIL™ LSAP series

## for General Electronic Equipment for Consumer

シリーズ前の記号は、品番から抽出したものであり、製品の種類や特性などの区分を示すためのものです。

REFLOW

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

\* Operating Temp.: -40~+105°C (Including self-generated heat) ≈ 1 Parts Number reference

### PART NUMBER

L	S	A	P	B	2	0	1	6	K	K	T	1	R	0	M	
①	②	③		④	⑤	⑥	⑦	⑧								

### ① Series

Code (1)(2)(3)(4)	
LSAP	Wire-wound Metal Power Inductor for General Electronic Equipment for Consumer

### (1) Product Group

Code	
L	Inductors

### (2) Category

Code	Recommended equipment	Quality Grade
S	General Electronic Equipment for Consumer	3

### ② Features

Code	Feature
B	L-shape electrode (Ag-resin × Sn-plate)

### ③ Dimensions (L × W)

Code	Type (inch)	Dimensions (L × W) [mm]
2016	2016 (0806)	2.0 × 1.6
2520	2520 (1008)	2.5 × 2.0

### ④ Dimensions (T)

Code	Dimensions (T) [mm]
KK	1.0
MK	1.2

### (3) Type

Code	
A	Metal Wire-wound

### (4) Features, Characteristics

Code	
P	High current power choke

### ⑤ Packaging

Code	Packaging
T	Taping

### ⑥ Nominal inductance

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

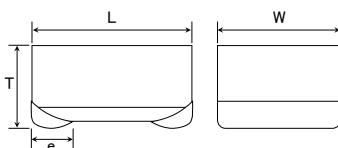
※R=Decimal point

### ⑦ Inductance tolerance

Code	Inductance tolerance
M	±20%

### ⑧ Internal code

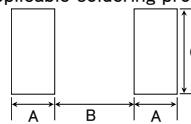
### STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY



#### 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
2016	0.7	0.8	1.8
2520	0.8	1.2	2.0

Unit:mm

Type	L	W	T	e	Standard quantity [pcs] Taping
2016KK	2.0±0.1 (0.079±0.004)	1.6±0.1 (0.063±0.004)	1.0 max (0.039 max)	0.5±0.3 (0.020±0.012)	3000
2520KK	2.5±0.2 (0.098±0.008)	2.0±0.2 (0.079±0.008)	1.0 max (0.039 max)	0.5±0.3 (0.020±0.012)	3000
2520MK	2.5±0.2 (0.098±0.008)	2.0±0.2 (0.079±0.008)	1.2 max (0.047 max)	0.5±0.3 (0.020±0.012)	3000

Unit:mm (inch)

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# Wire-wound Metal Power Inductors MCOIL™ LSBH series

## for General Electronic Equipment for Consumer

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

REFLOW

### PART NUMBER

\* Operating Temp.: -40~+105°C (Including self-generated heat)

L	S	B	H	B	1	6	0	8	K	K	T	1	R	0	M	
①	②	③	④	⑤	⑥	⑦	⑧									

### ①Series

Code (1)(2)(3)(4)	
LSBH	Wire-wound Metal Power Inductor for General Electronic Equipment for Consumer

### (1) Product Group

Code	
L	Inductors

### (2) Category

Code	Recommended equipment	Quality Grade
S	General Electronic Equipment for Consumer	3

### ②Features

Code	Feature
B	L-shape electrode (Ag-resin × Sn-plate)

### ③Dimensions (L × W)

Code	Type (inch)	Dimensions (L × W) [mm]
1608	1608(0603)	1.6 × 0.8
2012	2012(0805)	2.0 × 1.25
2520	2520(1008)	2.5 × 2.0

### ④Dimensions (T)

Code	Dimensions (T) [mm]
KK	1.0
MK	1.2

### (3) Type

Code	
B	Metal Wire-wound (Horizontal type)

### (4) Features, Characteristics

Code	
H	Hybrid power choke

### ⑤Packaging

Code	Packaging
T	Taping

### ⑥Nominal inductance

Code (example)	Nominal inductance [μH]
R24	0.24
1R0	1.0
4R7	4.7

※R=Decimal point

### ⑦Inductance tolerance

Code	Inductance tolerance
M	±20%
N	±30%

### ⑧Internal code

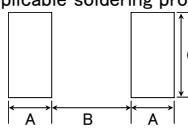
### PART NUMBER

Type	L	W	T	e	Standard quantity [pcs]		
					Paper tape	Embossed tape	
1608KK	1.6±0.2 (0.063±0.008)	0.8±0.2 (0.031±0.008)	1.0 max (0.040 max)	0.45±0.15 (0.016±0.006)	—	3000	
2012KK	2.0±0.2 (0.079±0.008)	1.25±0.2 (0.049±0.008)	1.0 max (0.040 max)	0.5±0.2 (0.020±0.008)	—	3000	
2520MK	2.5±0.2 (0.098±0.008)	2.0±0.2 (0.079±0.008)	1.2 max (0.047 max)	0.5±0.2 (0.020±0.008)	—	3000	

### 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
1608	0.55	0.70	1.00
2012	0.60	1.00	1.45
2520	0.60	1.50	2.00

Unit : mm

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# Wire-wound Metal Power Inductors MCOIL™ LSBH series (125°C guaranteed product) for General Electronic Equipment for Consumer

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

REFLOW

## PART NUMBER

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

L	S	B	H	B	1	6	0	8	K	K	T	1	R	0	M	G	
①	②	③	④	⑤	⑥	⑦	⑧	⑨									

### ①Series

Code (1)(2)(3)(4)	
LSBH	Wire-wound Metal Power Inductor for General Electronic Equipment for Consumer

### (1) Product Group

Code	
L	Inductors

### (2) Category

Code	Recommended equipment	Quality Grade
S	General Electronic Equipment for Consumer	3

### ②Features

Code	Feature
B	L-shape electrode (Ag-resin × Sn-plate)

### ③Dimensions (L × W)

Code	Type (inch)	Dimensions (L × W) [mm]
1608	1608(0603)	1.6 × 0.8
2520	2520(1008)	2.5 × 2.0

### ④Dimensions (T)

Code	Dimensions (T) [mm]
KK	1.0
MK	1.2

### (3) Type

Code	
B	Metal Wire-wound (Horizontal type)

### (4) Features, Characteristics

Code	
H	Hybrid power choke

### ⑤Packaging

Code	Packaging
T	Taping

### ⑥Nominal inductance

Code (example)	Nominal inductance [μH]
R24	0.24
1R0	1.0
4R7	4.7

※R=Decimal point

### ⑦Inductance tolerance

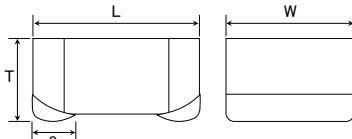
Code	Inductance tolerance
M	±20%
N	±30%

### ⑧Special code

Code	Special code
G	High characteristic specification

### ⑨Internal code

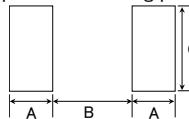
## STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY



### 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
1608	0.55	0.70	1.00
2520	0.60	1.50	2.00

Unit:mm

Type	L	W	T	e	Standard quantity[pcs]	
					Paper tape	Embossed tape
1608KK	1.6±0.2 (0.063±0.008)	0.8±0.2 (0.031±0.008)	1.0 max (0.040 max)	0.45±0.15 (0.016±0.006)	—	3000
2520MK	2.5±0.2 (0.098±0.008)	2.0±0.2 (0.079±0.008)	1.2 max (0.047 max)	0.5±0.2 (0.020±0.008)	—	3000

Unit:mm(inch)

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# Wire-wound Metal Power Inductors MCOIL™ LSEN series

## for General Electronic Equipment for Consumer

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

REFLOW

■ PART NUMBER

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

L	S	E	N	C	2	0	1	6	K	K	T	1	R	0	M	
①	②	③		④	⑤	⑥	⑦	⑧								

① Series

Code (1)(2)(3)(4)	
LSEN	Wire-wound Metal Power Inductor for General Electronic Equipment for Consumer

(1) Product Group

Code	
L	Inductors

(2) Category

Code	Recommended equipment	Quality Grade
S	General Electronic Equipment for Consumer	3

② Features

Code	Feature
C	Bottom electrode (Ag-resin × Sn-plate)

③ Dimensions (L × W)

Code	Dimensions (L × W) [mm]
2016	2.0 × 1.6
2520	2.5 × 2.0

④ Dimensions (T)

Code	Dimensions (T) [mm]
KK	1.0

(3) Type

Code	
E	Metal Wire-wound (High filling type)

(4) Features, Characteristics

Code	
N	Standard Power choke

⑤ Packaging

Code	Packaging
T	Taping

⑥ Nominal inductance

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

※R=Decimal point

⑦ Inductance tolerance

Code	Inductance tolerance
M	±20%

⑧ Internal code

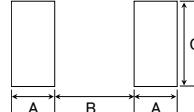
■ STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY

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
2016	0.7	0.8	1.8
2520	0.9	1.0	2.2

Unit:mm

Type	L	W	T	e	Standard quantity [pcs] Taping
2016KK	2.0±0.2 (0.079±0.008)	1.6±0.2 (0.063±0.008)	1.0 max (0.039 max)	0.5±0.3 (0.020±0.012)	3000
2520KK	2.5±0.2 (0.098±0.008)	2.0±0.2 (0.079±0.008)	1.0 max (0.039 max)	0.65±0.3 (0.026±0.012)	3000

Unit:mm (inch)

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# Wire-wound Metal Power Inductors MCOIL™ LSEP series

## for General Electronic Equipment for Consumer

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

REFLOW

## ■ PART NUMBER

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

L	S	E	P	C	2	0	1	6	K	K	T	1	R	0	M	
①	②	③	④	⑤	⑥	⑦	⑧									

## ① Series

Code (1)(2)(3)(4)	
LSEP	Wire-wound Metal Power Inductor for General Electronic Equipment for Consumer

## (1) Product Group

Code	
L	Inductors

## (2) Category

Code	Recommended equipment	Quality Grade
S	General Electronic Equipment for Consumer	3

## ② Features

Code	Feature
C	Bottom electrode (Ag-resin × Sn-plate)

## ③ Dimensions (L × W)

Code	Dimensions (L × W) [mm]
2012	2.0 × 1.2
2016	2.0 × 1.6
2520	2.5 × 2.0

## ④ Dimensions (T)

Code	Dimensions (T) [mm]
HK	0.8
KK	1.0

## (3) Type

Code	
E	Metal Wire-wound (High filling type)

## (4) Features, Characteristics

Code	
P	High current power choke

## ⑤ Packaging

Code	Packaging
T	Taping

## ⑥ Nominal inductance

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

※ R=Decimal point

## ⑦ Inductance tolerance

Code	Inductance tolerance
M	±20%

## ⑧ Internal code

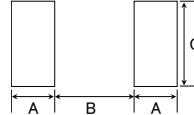
## ■ STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY

## 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
2012	0.7	0.8	1.4
2016	0.7	0.8	1.8
2520	0.9	1.0	2.2

Unit: mm

Type	L	W	T	e	Standard quantity [pcs] Taping
2012HK	2.0±0.2 (0.079±0.008)	1.2±0.2 (0.047±0.008)	0.8 max (0.031 max)	0.5±0.3 (0.020±0.012)	3000
2012KK	2.0±0.2 (0.079±0.008)	1.2±0.2 (0.047±0.008)	1.0 max (0.039 max)	0.5±0.3 (0.020±0.012)	3000
2016KK	2.0±0.2 (0.079±0.008)	1.6±0.2 (0.063±0.008)	1.0 max (0.039 max)	0.5±0.3 (0.020±0.012)	3000
2520KK	2.5±0.2 (0.098±0.008)	2.0±0.2 (0.079±0.008)	1.0 max (0.039 max)	0.65±0.3 (0.026±0.012)	3000

Unit: mm (inch)

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# Wire-wound Metal Power Inductors MCOIL™ LSEU series

## for General Electronic Equipment for Consumer

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

REFLOW

PART NUMBER

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

L	S	E	U	C	2	0	1	6	K	K	T	1	R	0	M	
①	②	③		④	⑤		⑥		⑦		⑧					

①Series

Code (1)(2)(3)(4)	
LSEU	Wire-wound Metal Power Inductor for General Electronic Equipment for Consumer

(1) Product Group

Code	
L	Inductors

(2) Category

Code	Recommended equipment	Quality Grade
S	General Electronic Equipment for Consumer	3

②Features

Code	Feature
C	Bottom electrode (Ag-resin × Sn-plate)

③Dimensions (L × W)

Code	Dimensions (L × W) [mm]
2012	2.0 × 1.25
2016	2.0 × 1.6
2520	2.5 × 2.0
3225	3.2 × 2.5

④Dimensions (T)

Code	Dimensions (T) [mm]
HK	0.8
KK	1.0

(3) Type

Code	
E	Metal Wire-wound (High filling type)

(4) Features, Characteristics

Code	
U	High strength power choke

⑤Packaging

Code	Packaging
T	Taping

⑥Nominal inductance

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

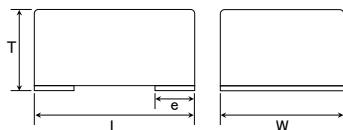
※R=Decimal point

⑦Inductance tolerance

Code	Inductance tolerance
M	±20%

⑧Internal code

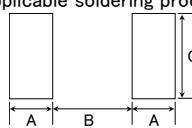
## ■ STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY



## 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
2012	0.8	0.6	1.4
2016	0.8	0.6	1.8
2520	1.0	0.8	2.2
3225	1.1	1.3	2.7

Unit:mm

Type	L	W	T	e	Standard quantity[pcs]
					Taping
2012HK	2.0±0.2 (0.079±0.008)	1.2±0.2 (0.047±0.008)	0.8 max (0.031 max)	0.6±0.3 (0.024±0.012)	3000
2012KK	2.0±0.2 (0.079±0.008)	1.2±0.2 (0.047±0.008)	1.0 max (0.039 max)	0.6±0.3 (0.024±0.012)	3000
2016HK	2.0±0.2 (0.079±0.008)	1.6±0.2 (0.063±0.008)	0.8 max (0.031 max)	0.6±0.3 (0.024±0.012)	3000
2016KK	2.0±0.2 (0.079±0.008)	1.6±0.2 (0.063±0.008)	1.0 max (0.039 max)	0.6±0.3 (0.024±0.012)	3000
2520KK	2.5±0.2 (0.098±0.008)	2.0±0.2 (0.079±0.008)	1.0 max (0.039 max)	0.8±0.3 (0.031±0.012)	3000
3225HK	3.2±0.2 (0.126±0.008)	2.5±0.2 (0.098±0.008)	0.8 max (0.031 max)	1.0±0.3 (0.039±0.012)	3000

Unit:mm(inch)