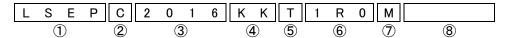
Wire-wound Metal Power Inductors MCOIL[™] LSEP series for General Electronic Equipment for Consumer

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 \sim +125 $^{\circ}$ C (Including self-generated heat)



1)Series

<u> </u>	9			
Code				
(1)(2)(3)(4)				
LSED	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

Code

Code	
Е	Metal Wire-wound (High filling type)

(4) Features. Characteristics

Code	,
Р	High current power choke

2Features

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

③Dimensions (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)

() Billionicionic (1)			
Code	Dimensions (T) [mm]		
HK	0.8		
KK	1.0		

5Packaging

Code	Packaging
Т	Taping

6 Nominal inductance

©1101111111111111111111111111111111111			
Code (example)	Nominal inductance[μH]		
R47	0.47		
1R0	1.0		
4R7	4.7		

※R=Decimal point

7Inductance tolerance

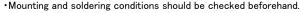
© Industrial Control			
Code	Inductance tolerance		
М	±20%		

8Internal code

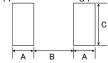
■STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY

Recommended Land Patterns

Surface Mounting



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



Туре	Α	В	С
2012	0.7	0.8	1.4
2016	0.7	8.0	1.8
2520	0.9	1.0	2.2

Unit:mm

Туре	L	W	Т	е	Standard quantity[pcs] Taping
2012HK	2.0±0.2	1.2±0.2	0.8 max	0.5 ± 0.3	3000
2012111	(0.079 ± 0.008)	(0.047 ± 0.008)	(0.031 max)	(0.020 ± 0.012)	3000
2012KK	2.0±0.2	1.2±0.2	1.0 max	0.5 ± 0.3	3000
2012KK	(0.079 ± 0.008)	(0.047 ± 0.008)	(0.039 max)	(0.020 ± 0.012)	3000
2016KK	2.0±0.2	1.6±0.2	1.0 max	0.5 ± 0.3	3000
2010KK	(0.079 ± 0.008)	(0.063 ± 0.008)	(0.039 max)	(0.020 ± 0.012)	3000
2520KK	2.5±0.2	2.0±0.2	1.0 max	0.65 ± 0.3	3000
2020KK	(0.098 ± 0.008)	(0.079 ± 0.008)	(0.039 max)	(0.026 ± 0.012)	3000

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.tv-top.com/).

Unit:mm(inch)

PART NUMBER

2012HK type		【Thickn	ess:0.8mm max.]						
	Old part number		Nominal inductance		Self-resonant	DC Resistance		※) [mA](max.)	Managed
New part number	(for reference)	EHS	[μ H]	Inductance tolerance	frequency [MHz] (min.)	[Ω] (max.)	Saturation current Idc1	Temperature rise current Idc2	Measuring frequency[MHz]
LSEPC2012HKTR47M	MEHK2012HR47M	RoHS	0.47	±20%	-	0.035	4,100	3,700	1

2012KK type		[Thickn	ess:1.0mm max.]						
	Old part number		Nominal inductance		Self-resonant	DC Resistance		※) [mA](max.)	Manageria
New part number	(for reference)	EHS	[μ H]	Inductance tolerance	frequency [MHz] (min.)	[Ω](max.)	Saturation current Idc1	Temperature rise current Idc2	Measuring frequency[MHz]
LSEPC2012KKTR47M	MEKK2012HR47M	RoHS	0.47	±20%	-	0.030	4,500	4,200	1

	2016KK type		【Thickness∶1.0mm max.】								
		Old next morehes		Nominal inductance		Self-resonant	DC Resistance		※) [mA](max.)	Measuring	
	New part number	Old part number (for reference)	EHS	[μ H]	Inductance tolerance	frequency [MHz](min.)	[Ω](max.)	Saturation current Idc1	Temperature rise current Idc2	frequency[MHz]	
LS	EPC2016KKTR47M	MEKK2016HR47M	RoHS	0.47	±20%	-	0.026	5,300	4,700	1	
LS	EPC2016KKT1R0M	MEKK2016H1R0M	RoHS	1.0	±20%	_	0.048	4,000	3,500	1	
LS	EPC2016KKT2R2M	MEKK2016H2R2M	RoHS	2.2	±20%	-	0.100	2,300	2,300	1	

New part number Old part number (for reference) EHS Nominal inductance $[\muH]$ Inductance tolerance $[\muH]$ Self-resonant frequency $[\Omega]$ (max.) $[\Omega]$ (max.) Saturation current $[\Omega]$ (max.) Temperature rise current Ide2 Frequency $[MHz]$ (max.) Saturation current Ide2 Self-resonant frequency $[MHz]$ (max.) Self-resonant frequency $[MHz]$ (max.) Saturation current Ide2 Self-resonant frequency $[MHz]$ (max.) Self-resonant frequency $[MHz]$ (max.) Self-resonant frequency $[Mz]$ (max.)	2520KK type		Thickr	ess:1.0mm max.						
New part number (for reference) (for referenc			EHS		Inductance tolerance	frequency		Rated current ※) [mA](max.)		
	New part number							Saturation current	Temperature rise current	frequency[MHz]
	LSEPC2520KKT1R0M	MEKK2520H1R0M	RoHS	1	±20%		0.039			1

Material:FR4

Board dimensions:100 × 50 × 1.6t mm

Pattern dimensions:45 × 45 mm (Double side board)

Pattern thickness: 70 μ m

[%]) The saturation current value (ldc1) is the DC current value having inductance decrease down to 30%, (at 20°C) %) The temperature rise current value (ldc2) is the DC current value having temperature increase up to 40°C. (at 20°C)

XX) The rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

^{ightarrow}) Idc2 Measurement board data

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