

NEW PRODUCT
 INFORMATION

Large-Current Power Inductor

MPCH Series

[RoHS Compliant]



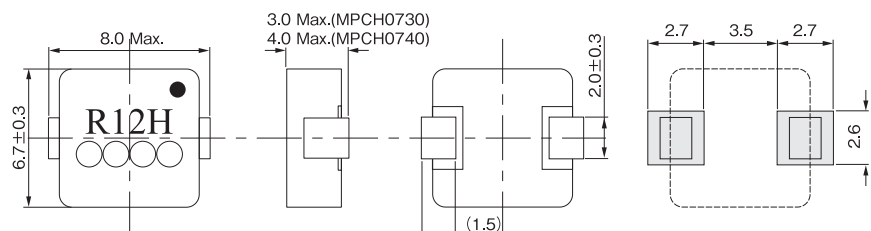
Model	Inductance L (μH) at 100kHz	DC resistance RDC (mΩ)	Rated Current (A)	
			I _{rms} * ¹ (Ref.)	I _{sat} * ² (Ref.)
MPCH0730LR12	0.12±20%	0.65±10%	31.0	32.0
MPCH0730LR24	0.24±20%	1.20±10%	23.0	19.0
MPCH0740LR15	0.15±20%	0.93±10%	29.0	31.0
MPCH0740LR24	0.24±20%	1.00±10%	27.0	20.0
MPCH0740LR36E	0.36±20%	1.42±10%	23.0	22.0
MPCH1040LR36	0.36±20%	0.88±10%	28.0	24.0
MPCH1040L1R0	1.00±20%	2.30±10%	17.0	17.0
MPCH1055L1R3	1.30±20%	2.30±10%	18.5	17.0

*1 T=40K rise at rated current. *2 Inductance drop 20% at rated current.
 ●Operating temperature range: -20~+120°C (Include self temperature rise)

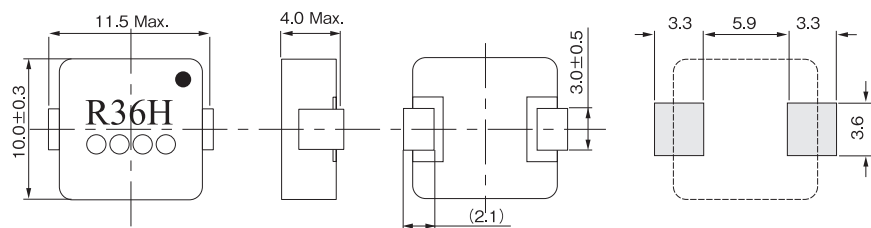
Shape and Dimensions

Recommended Land Pattern

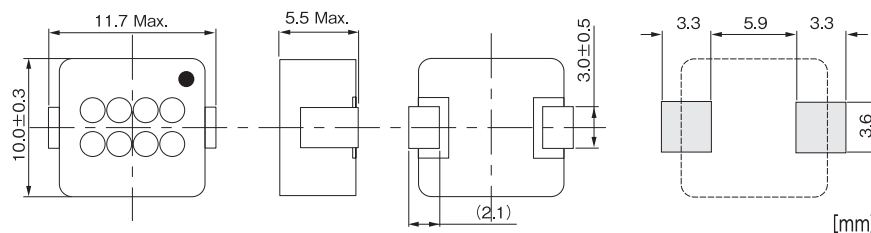
- MPCH0730LR12
- MPCH0730LR24
- MPCH0740LR15
- MPCH0740LR24
- MPCH0740LR36E



- MPCH1040LR36
- MPCH1040L1R0



- MPCH1055L1R3

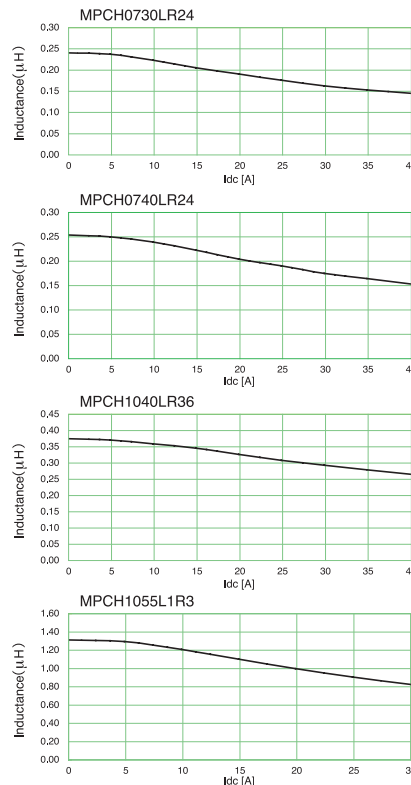
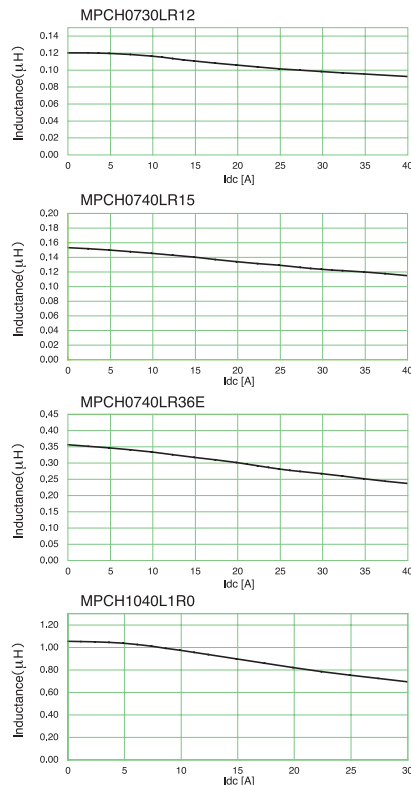


[mm]

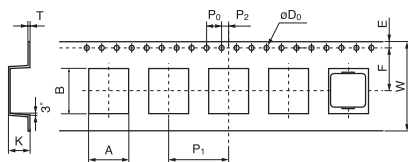


●All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
 ●Please request for a specification sheet for detailed product data prior to the purchase.
 ●Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

DC-Superposed Characteristics



Dimensions of indented square hole plastic tape



MPCH0730, MPCH0740Series (1000pcs./reel)

A	B	W	F	E	P ₁	P ₂	P ₀	øD ₀	T	K
±0.1	±0.1	±0.2	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.1	±0.1
7.0	8.0	16.0	7.5	1.75	12.0	2.0	4.0	1.55	0.4	5.3

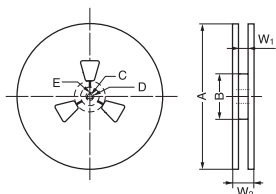
MPCH1040Series (500pcs./reel)

A	B	W	F	E	P ₁	P ₂	P ₀	øD ₀	T	K
±0.1	±0.1	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05	±0.1
10.5	12.1	24.0	11.5	1.75	16.0	2.0	4.0	1.55	0.4	5.2

MPCH1055Series (500pcs./reel)

A	B	W	F	E	P ₁	P ₂	P ₀	øD ₀	T	K
±0.1	±0.1	±0.2	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05	±0.1
10.5	12.1	24.0	11.5	1.75	24.0	2.0	4.0	1.55	0.4	6.0

Reel dimensions



MPCH0730, MPCH0740Series (1000pcs./reel)

A	B	C	D	E	r	W ₁	W ₂
±2.0	±1.0	±0.2	±0.8	±0.5		±1.0	±1.0
ø330	ø80	ø13.0	ø21.0	2.0	R1.0	17.5	21.5

MPCH1040Series (500pcs./reel)

A	B	C	D	E	r	W ₁	W ₂
±5.0	±5.0	±0.5	±1.0	±0.5		±2.0	±3.0
ø330	ø80	ø13.5	ø21.0	2.0	R1.0	24.4	30.4

MPCH1055Series (500pcs./reel)

A	B	C	D	E	r	W ₁	W ₂
±2.0	±1.0	±0.5	±0.8	±0.5		±2.0	±3.0
ø380	ø100	ø13.0	ø21.0	2.0	R1.0	24.4	30.4

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Precautions



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- Descriptions in this catalog regarding product characteristics and quality are based solely on discrete components. When using these components, be sure to check the specifications with the component in question mounted on the products.
- The manufacturer's warranty will not cover any disadvantage or damage caused by improper use of the products that deviates from the characteristics, specifications, or conditions for use described in this catalog.
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● This catalog is current as of May 2012.

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