

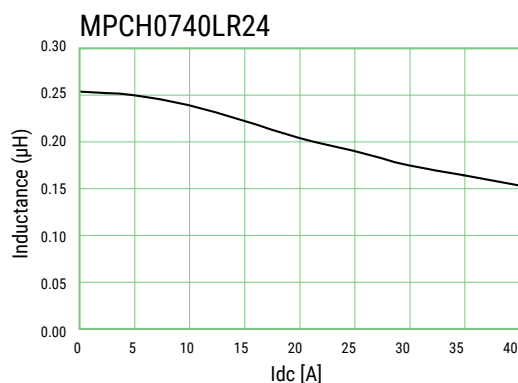
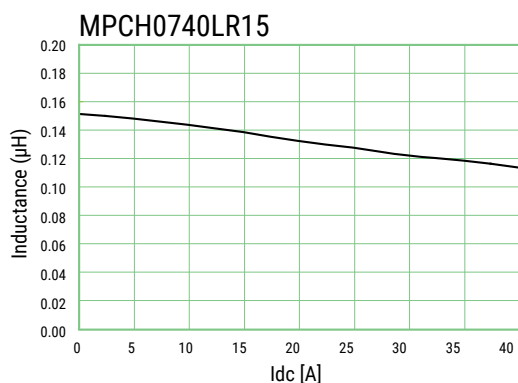
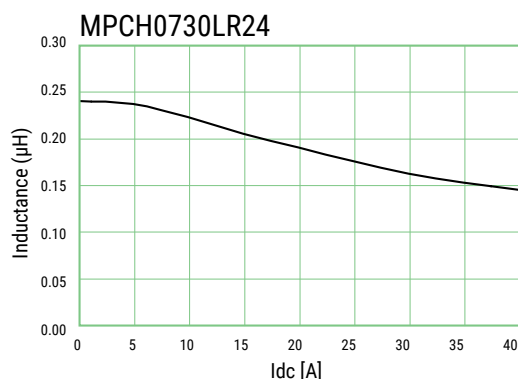
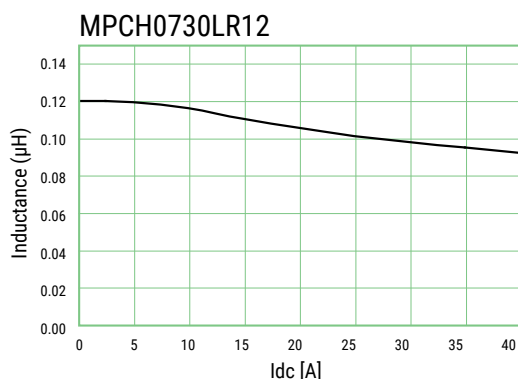
**Table 1 – Ratings & Part Number Reference**

Part Number	Inductance ( $\mu\text{H}$ ) at 100 kHz	Inductance Tolerance	DC Resistance ( $\text{m}\Omega$ ) $\pm 10\%$	Rated Current (A)	
				$I_{\text{rms}}^1$ (Ref.)	$I_{\text{sat}}^2$ (Ref.)
MPCH0730LR12	0.12	$\pm 20\%$	0.65	31.0	32.0
MPCH0730LR24	0.24	$\pm 20\%$	1.20	23.0	19.0
MPCH0740LR15	0.15	$\pm 20\%$	0.93	29.0	31.0
MPCH0740LR24	0.24	$\pm 20\%$	1.00	27.0	20.0
MPCH0740LR36E	0.36	$\pm 20\%$	1.42	23.0	22.0
MPCH1040LR36	0.36	$\pm 20\%$	0.88	28.0	24.0
MPCH1040LR1R0	1.00	$\pm 20\%$	2.30	17.0	17.0
MPCH1055LR1R3	1.30	$\pm 20\%$	2.30	18.5	17.0
MPCH1060LR45	0.45	$\pm 20\%$	0.76	32.0	32.0
MPCH1250LR1R5	1.50	$\pm 20\%$	2.20	21.0	21.0

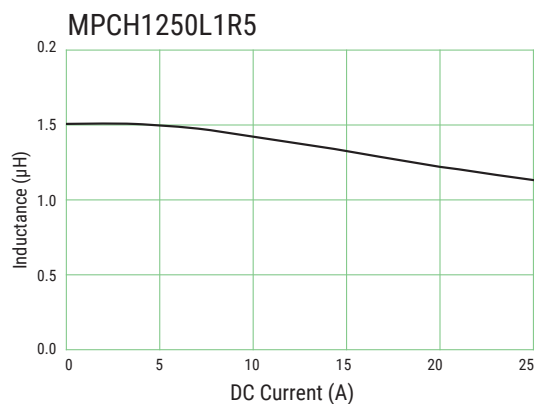
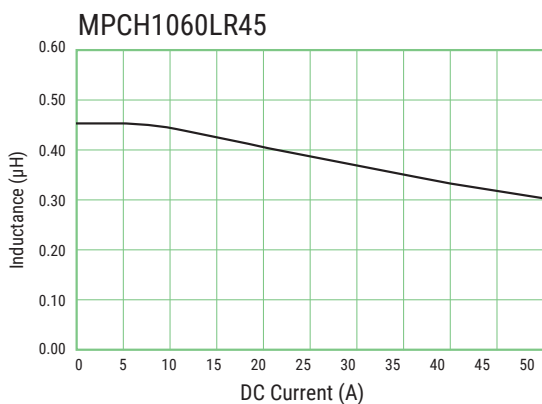
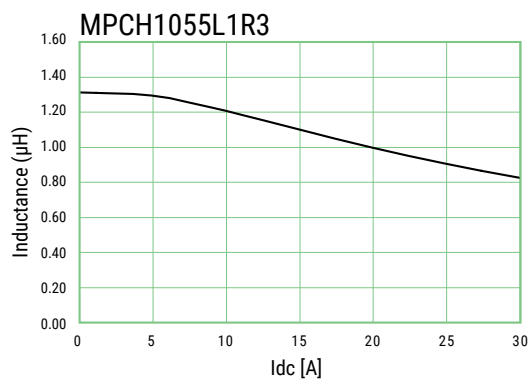
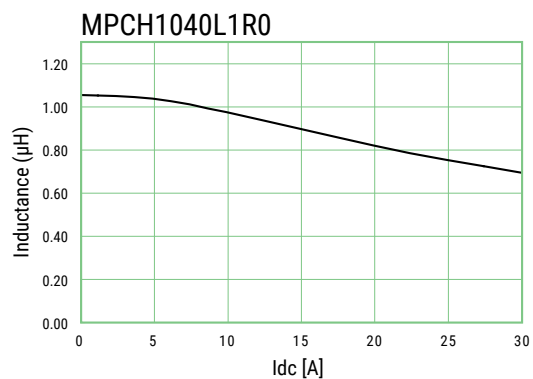
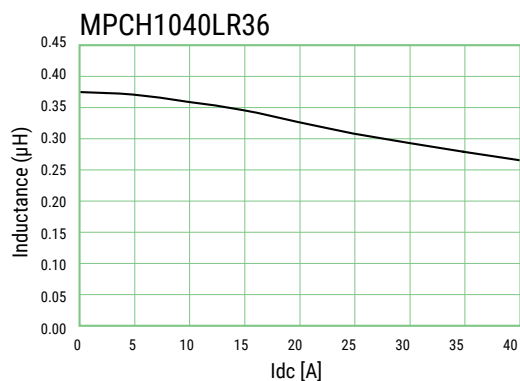
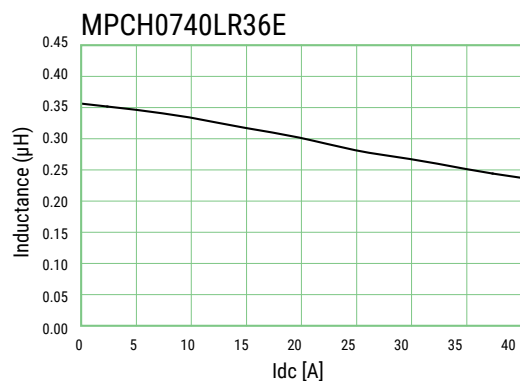
<sup>1</sup>  $T = 40\text{ K}$  rise at rated current.

<sup>2</sup> Inductance drop 20% at rated current.

## DC-Superposed Characteristics



## DC-Superposed Characteristics cont'd



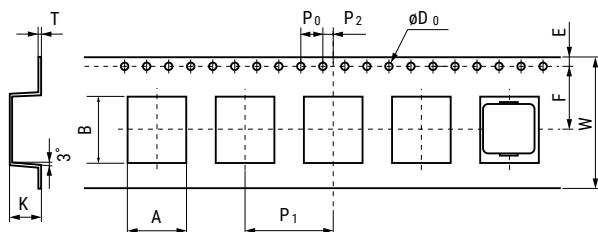
## Specifications

Part Number	Dimensions (mm)	Land Pattern
MPCH0730LR12 MPCH0730LR24 MPCH0740LR15 MPCH0740LR24 MPCH0740LR36E		
MPCH1040LR36 MPCH1040LR1R0		
MPCH1055L1R3		
MPCH1060LR45		
MPCH1250L1R5		

Operating temperature range: -20°C to +120°C (Include self temperature rise)

## Taping Specification

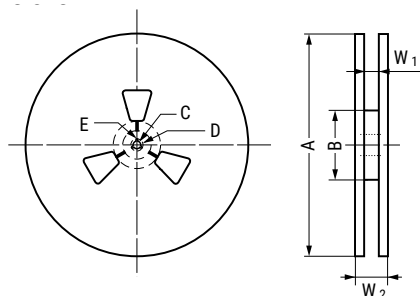
### Dimensions of indented square hole plastic tape



Series	Reel Qty		Dimensions (mm)										
			A	B	W	F	E	P <sub>1</sub>	P <sub>2</sub>	P <sub>0</sub>	øD <sub>0</sub>	T	K
MPCH0730, MPCH0740	1,000	Tolerance	±0.1	±0.1	±0.2	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05	±0.1
		Nominal	7.0	8.0	16.0	7.5	1.75	12.0	2.0	4.0	1.55	0.4	5.3
MPCH1040*	500*	Tolerance	±0.1	±0.1	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05	±0.1
		Nominal	10.5	12.1	24.0	11.5	1.75	16.0	2.0	4.0	1.55	0.4	5.2
MPCH1055	500	Tolerance	±0.1	±0.1	±0.2	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05	±0.1
		Nominal	10.5	12.1	24.0	11.5	1.75	24.0	2.0	4.0	1.55	0.4	6.0
MPCH1060	500	Tolerance	±0.1	±0.1	±0.2	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05	±0.1
		Nominal	10.5	12.1	24.0	11.5	1.75	24.0	2.0	4.0	1.55	0.4	6.5
MPCH1250	500	Tolerance	±0.1	±0.1	±0.2	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05	±0.1
		Nominal	13.1	12.1	24.0	11.5	1.75	24.0	2.0	4.0	1.55	0.4	5.4

\* MPCH1040LR36 Reel Qty = 1,000

## Reel Specifications



Series		Dimensions (mm)							
		A	B	C	D	E	r	W <sub>1</sub>	W <sub>2</sub>
MPCH0730, MPCH0740	Tolerance	±2.0	±1.0	±0.2	±0.8	±0.5		±1.0	±1.0
	Nominal	ø330	ø80	ø13.0	ø21.0	2.0	R1.0	17.5	21.5
MPCH1040	Tolerance	±5.0	±5.0	±0.5	±1.0	±0.5		±2.0	±3.0
	Nominal	ø330	ø80	ø13.5	ø21.0	2.0	R1.0	24.4	30.4
MPCH1055 MPCH1060 MPCH1250	Tolerance	±2.0	±1.0	±0.5	±0.8	±0.5		±2.0	±3.0
	Nominal	ø380	ø100	ø13.0	ø21.0	2.0	R1.0	24.4	30.4

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