

Large-Current Power Inductors MPC Series

[RoHS Compliant]

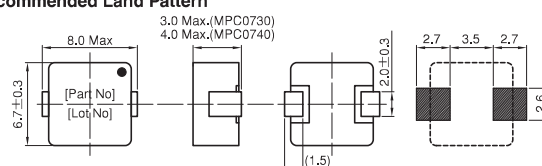


Model	Inductance (μ H) at 100kHz	DC resistance (m Ω) typ.	Rated current (A)	
			I _{rms} *1 (Ref.)	I _{sat} *2 (Ref.)
MPC0730LR20C	0.20 $\pm$ 25%	1.20 $\pm$ 10%	23.0	17.5
MPC0740LR42C	0.42 $\pm$ 20%	1.55 $\pm$ 10%	22.0	20.0
MPC0750LR60C	0.60 $\pm$ 20%	2.30 $\pm$ 10%	17.0	19.0
MPC0750LR68C	0.68 $\pm$ 20%	2.20 $\pm$ 10%	18.0	16.0
MPC1040LR36C	0.36 $\pm$ 20%	1.05 $\pm$ 10%	25.5	30.0
MPC1040LR45C	0.45 $\pm$ 20%	1.10 $\pm$ 10%	25.0	27.0
MPC1040LR56C	0.56 $\pm$ 20%	1.30 $\pm$ 10%	23.0	25.0
MPC1040LR88C	0.88 $\pm$ 20%	2.30 $\pm$ 10%	17.0	24.0
MPC1055LR36C	0.36 $\pm$ 20%	0.75 $\pm$ 10%	32.0	35.0
MPC1055LR1R0C	1.00 $\pm$ 20%	2.30 $\pm$ 10%	18.5	21.0
MPC1250LR36C	0.36 $\pm$ 20%	0.65 $\pm$ 10%	38.0	40.0
MPC1250LR50C	0.50 $\pm$ 20%	0.80 $\pm$ 10%	35.0	40.0

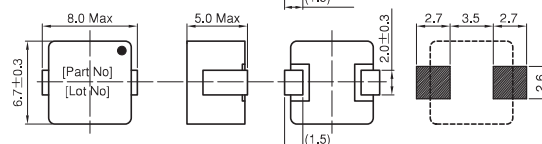
*1 T=40K rise at rated current. *2 Inductance drop 20% at rated current.
●Operating temperature range: -20 to +120°C (Including self-temperature rise)

Shape and Dimensions Recommended Land Pattern

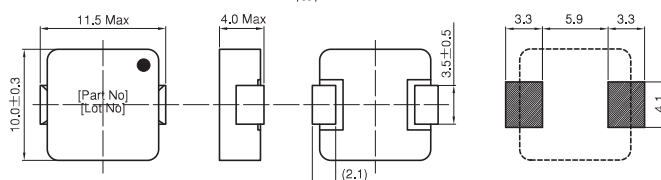
- MPC0730LR20C
- MPC0740LR42C



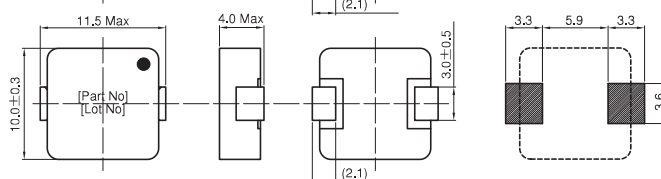
- MPC0750LR60C
- MPC0750LR68C



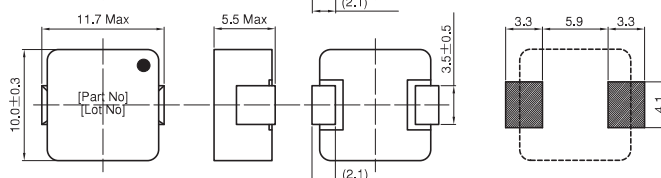
- MPC1040LR36C
- MPC1040LR45C
- MPC1040LR56C



- MPC1040LR88C



- MPC1055LR36C



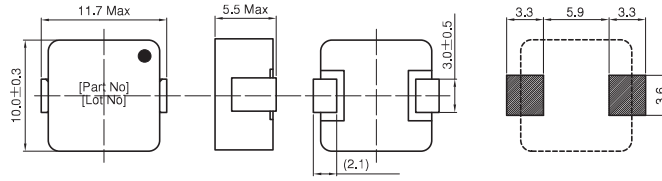
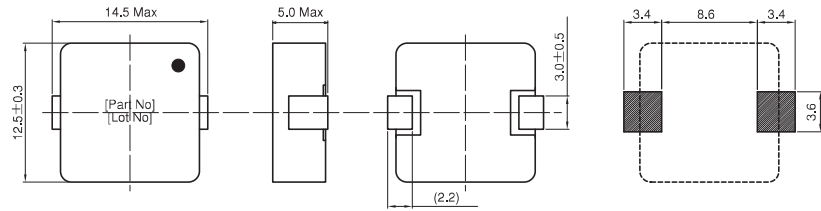
[mm]



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Shape and Dimensions Recommended Land Pattern

● MPC1055L1R0C

● MPC1250LR36C
● MPC1250LR50C

[mm]

Numbering System

MPC - 1040 - LR36C

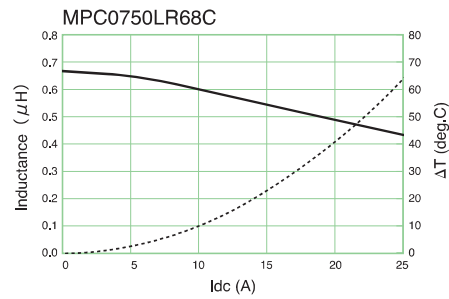
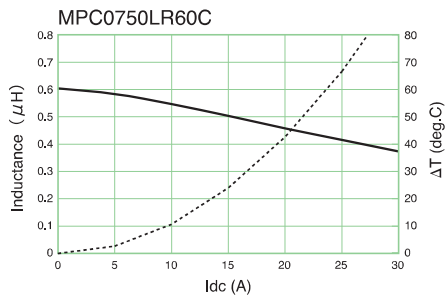
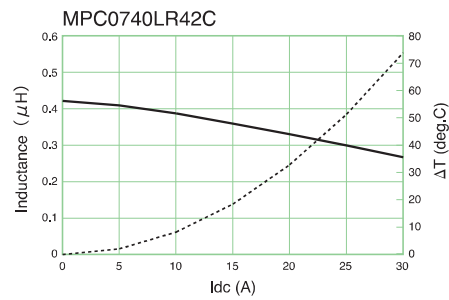
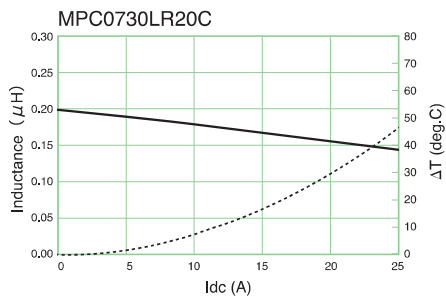
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③

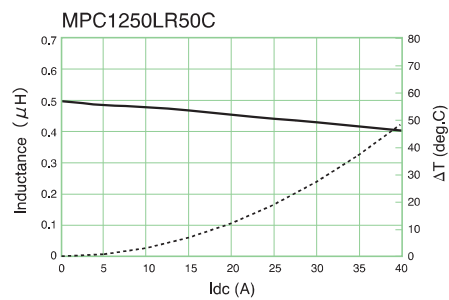
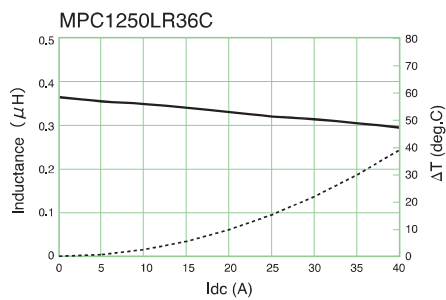
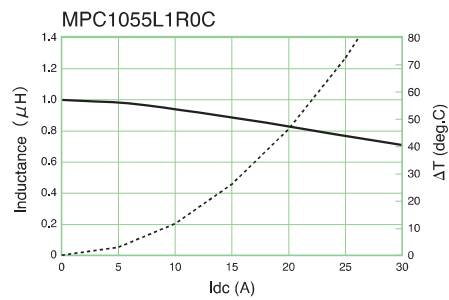
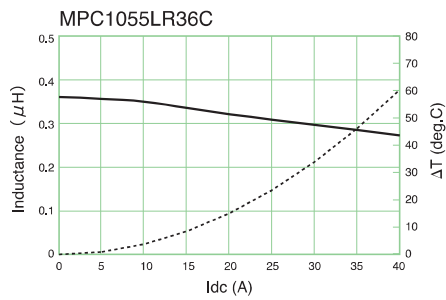
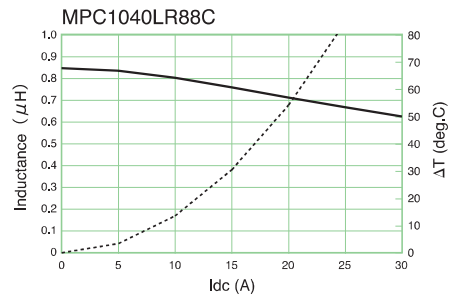
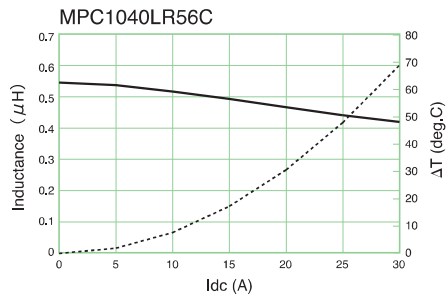
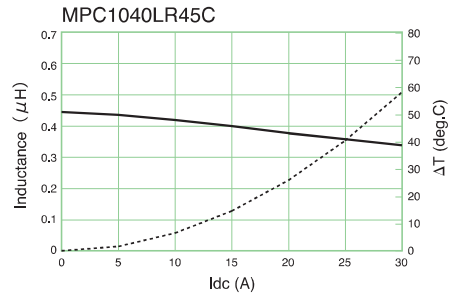
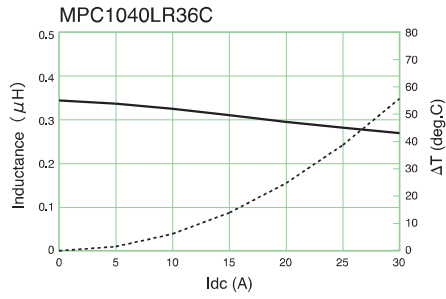
- ① Series
② Dimensions 10--WxD:11.5×10 mm 40--H:4.0 mm
③ Inductance R36--0.36μH

DC-Superposed Characteristics



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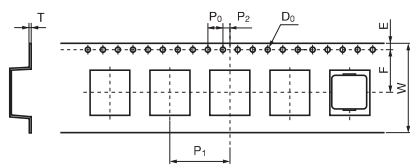
DC-Superposed Characteristics



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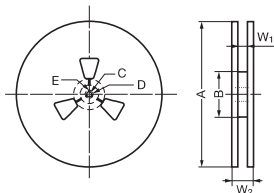
MPC0730, MPC0740, MPC0750 Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



[mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.2	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
16.0	7.5	1.75	12.0	2.0	4.0	1.55	0.4

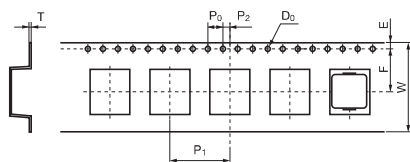
Reel dimensions



[mm]							
A	B	C	D	E	r	W ₁	W ₂
±2.0	±1.0	±0.2	±0.8	±0.5		±1.0	±1.0
330	80	13.0	21.0	2.0	R1.0	17.5	21.5

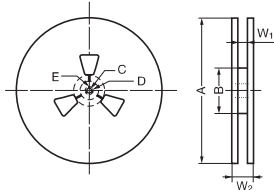
MPC1040 Series (500pcs./reel)

Dimensions of indented square hole plastic tape



[mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
24.0	11.5	1.75	16.0	2.0	4.0	1.55	0.4

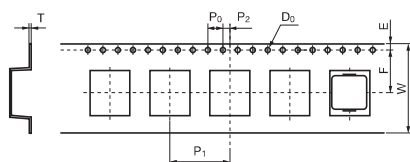
Reel dimensions



[mm]							
A	B	C	D	E	r	W ₁	W ₂
±5.0	±5.0	±0.5	±1.0	±0.5		±2.0	±3.0
330	80	13.5	21.0	2.0	R1.0	24.4	30.4

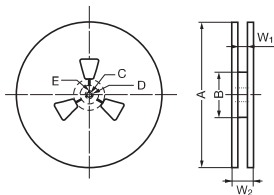
MPC1055 Series (500pcs./reel)

Dimensions of indented square hole plastic tape



[mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.2	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
24.0	11.5	1.75	24.0	2.0	4.0	1.55	0.4

Reel dimensions



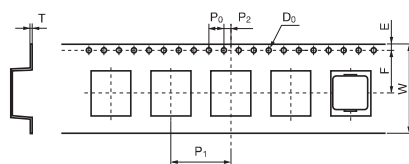
[mm]							
A	B	C	D	E	r	W ₁	W ₂
±2.0	±1.0	±0.5	±0.8	±0.5		±2.0	±3.0
380	100	13.0	21.0	2.0	R1.0	24.4	30.4



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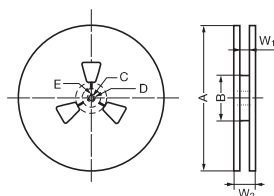
MPC1250 Series (500pcs./reel)

Dimensions of indented square hole plastic tape



[mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0,4	±0,2	±0,2	±0,2	±0,2	±0,2	±0,02	±0,1
24,0	11,5	1,75	24,0	2,0	4,0	1,5	0,4

Reel dimensions



[mm]							
A	B	C	D	E	r	W ₁	W ₂
±2.0	±5.0	±0.5	±0.8	±0.5		±2.0	±3.0
380	100	13.0	21.0	2.0	R1.0	25.5	28.5



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Large-Current Power Inductors MPCG Series <Low-Loss Series>

[RoHS Compliant]

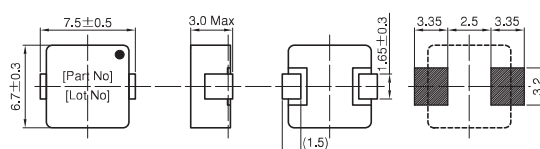


Model	Inductance (μ H) at 100kHz	DC resistance (m Ω) typ.	Rated current (A)	
			I _{rms} *1 (Ref.)	I _{sat} *2 (Ref.)
MPCG0730LR40	0.40 $\pm$ 20%	2.60 $\pm$ 10%	16.0	16.0
MPCG0740LR42	0.42 $\pm$ 20%	1.55 $\pm$ 10%	22.0	20.0
MPCG1040LR36	0.36 $\pm$ 20%	1.05 $\pm$ 10%	25.0	30.0
MPCG1040LR45	0.45 $\pm$ 20%	1.10 $\pm$ 10%	25.0	27.0
MPCG1040LR56	0.56 $\pm$ 20%	1.30 $\pm$ 10%	23.0	23.0
MPCG1040LR88	0.88 $\pm$ 20%	2.30 $\pm$ 10%	17.0	19.0

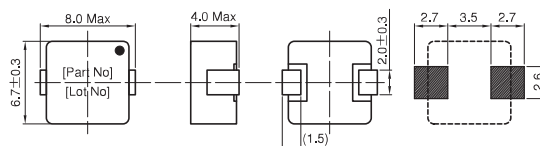
*1 T=40K rise at rated current. *2 Inductance drop 20% at rated current.
● Operating temperature range: -20 to +120°C (including self-temperature rise)

Shape and Dimensions Recommended Land Pattern

● MPCG0730LR40



● MPCG0740LR42

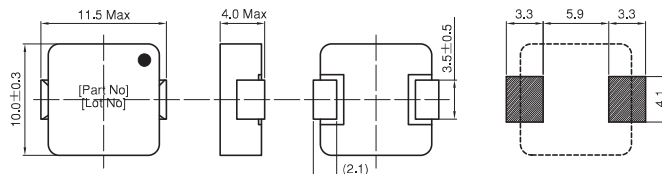


● MPCG1040LR36

● MPCG1040LR45

● MPCG1040LR56

● MPCG1040LR88



[mm]

Numbering System

MPCG - 1040 - LR36

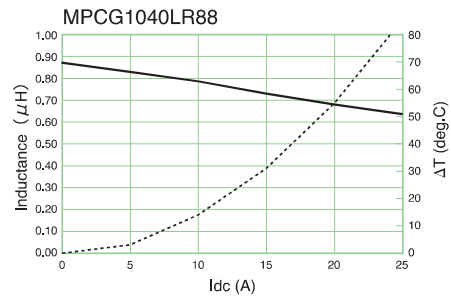
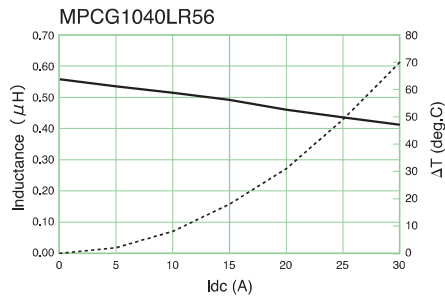
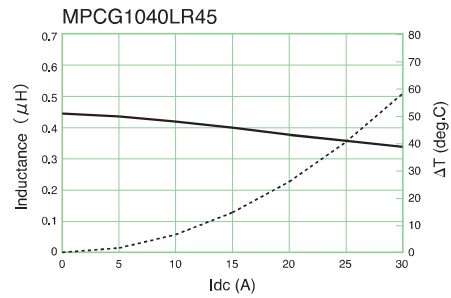
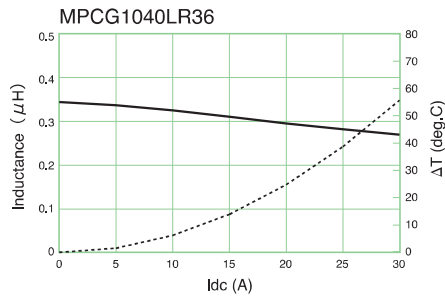
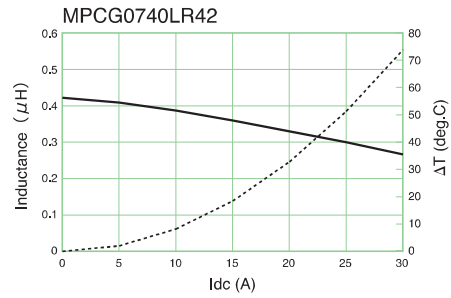
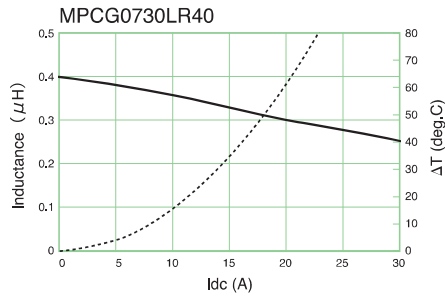
① ② ③

- ① Series
- ② Dimensions 10--WxD:11.5x10 mm 40--H:4.0 mm
- ③ Inductance R36--0.36 μ H



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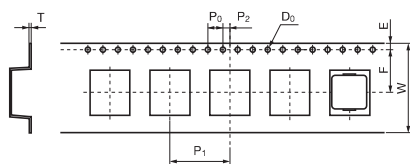
DC-Superposed Characteristics



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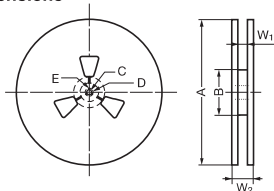
MPCG0730, MPCG0740 Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



[mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.2	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
16.0	7.5	1.75	12.0	2.0	4.0	1.55	0.4

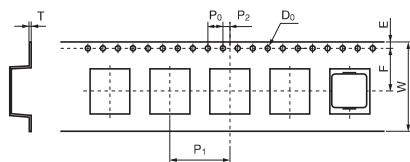
Reel dimensions



[mm]							
A	B	C	D	E	r	W ₁	W ₂
±2.0	±1.0	±0.2	±0.8	±0.5		±1.0	±1.0
330	80	13.0	21.0	2.0	R1.0	17.5	21.5

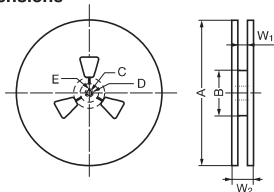
MPCG1040 Series (500pcs./reel)

Dimensions of indented square hole plastic tape



[mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
24.0	11.5	1.75	16.0	2.0	4.0	1.55	0.4

Reel dimensions



[mm]							
A	B	C	D	E	r	W ₁	W ₂
±5.0	±5.0	±0.5	±1.0	±0.5		±2.0	±3.0
330	80	13.5	21.0	2.0	R1.0	24.4	30.4



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Large-Current Power Inductors MPCH Series

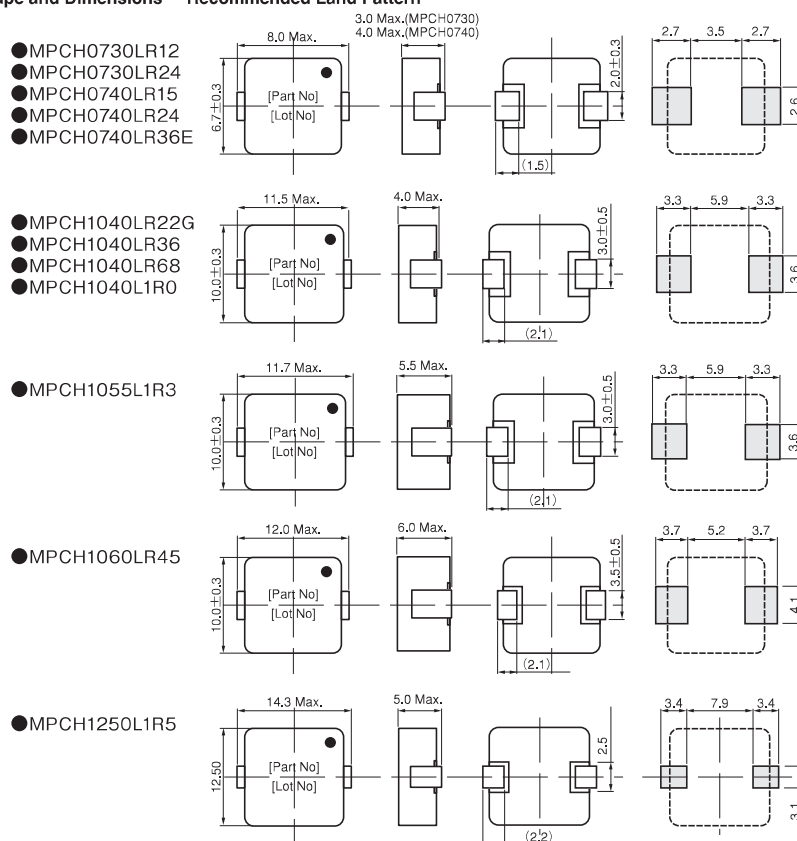
[RoHS Compliant]



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	18.5
MPCH0740LR15	0.15±20%	0.93±10%	29.0	31.0
MPCH0740LR24	0.24±20%	0.96±10%	27.0	20.0
MPCH0740LR36E	0.36±20%	1.42±10%	23.0	22.0
MPCH1040LR22G	0.22±20%	0.65±10%	32.0	35.0
MPCH1040LR36	0.36±20%	0.88±10%	28.0	24.0
MPCH1040LR68	0.68±20%	1.35±10%	22.0	24.0
MPCH1040LR1R0	1.00±20%	2.30±10%	17.0	17.0
MPCH1055LR3	1.30±20%	2.30±10%	18.5	17.0
MPCH1060LR45	0.45±20%	0.76±10%	32.0	32.0
MPCH1250LR5	1.50±20%	2.20±10%	21.0	21.0

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

Shape and Dimensions Recommended Land Pattern

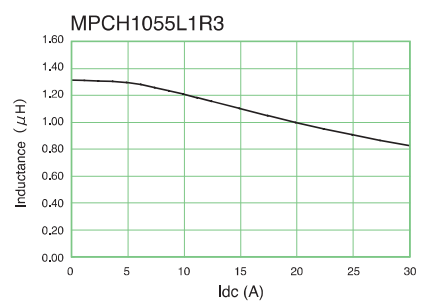
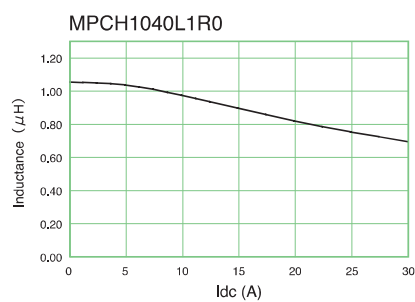
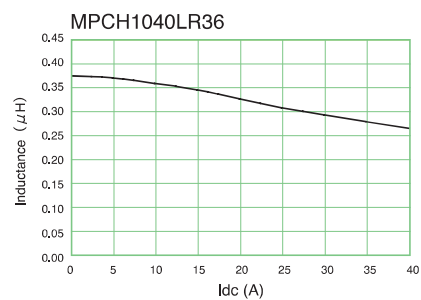
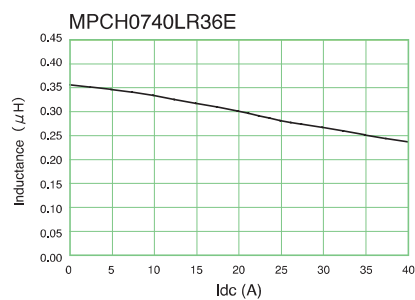
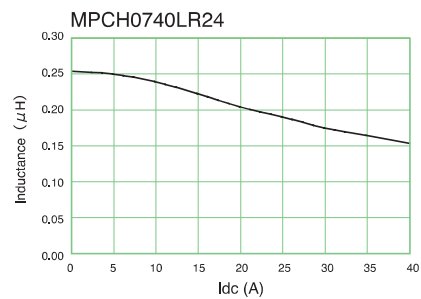
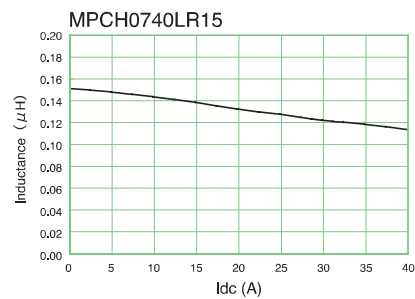
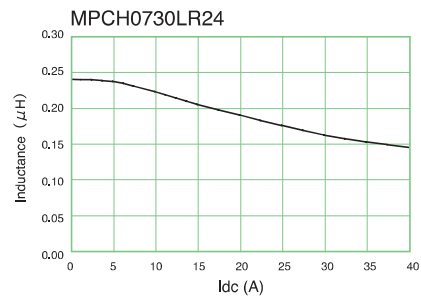
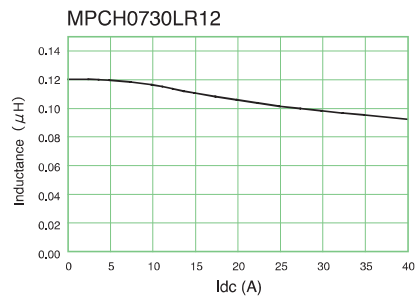


[mm]



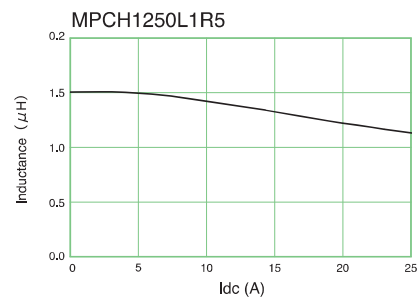
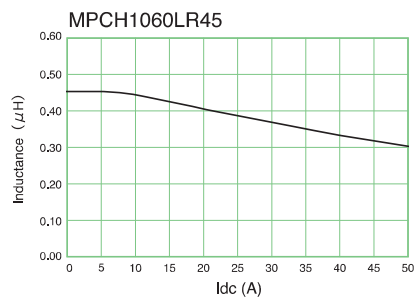
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- Please request for a specification sheet for detailed product data prior to the purchase.
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DC-Superposed Characteristics



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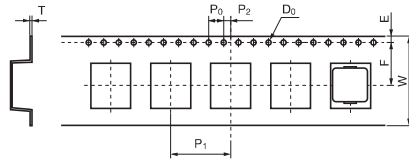
DC-Superposed Characteristics



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- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

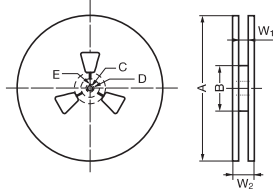
MPCH0730, MPCH0740 Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



[mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.2	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
16.0	7.5	1.75	12.0	2.0	4.0	1.55	0.4

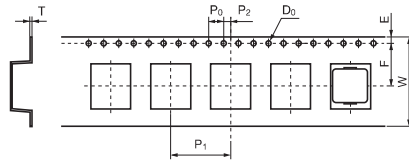
Reel dimensions



[mm]							
A	B	C	D	E	r	W ₁	W ₂
±2.0	±1.0	±0.2	±0.8	±0.5		±1.0	±1.0
330	80	13.0	21.0	2.0	R1.0	17.5	21.5

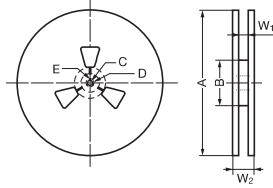
MPCH1040 Series (500pcs./reel)

Dimensions of indented square hole plastic tape



[mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
24.0	11.5	1.75	16.0	2.0	4.0	1.55	0.4

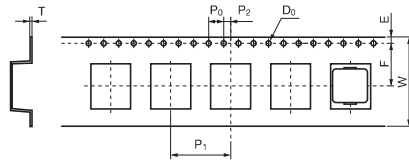
Reel dimensions



[mm]							
A	B	C	D	E	r	W ₁	W ₂
±5.0	±5.0	±0.5	±1.0	±0.5		±2.0	±3.0
330	80	13.5	21.0	2.0	R1.0	24.4	30.4

MPCH1055, MPCH1060, MPCH1250 Series (500pcs./reel)

Dimensions of indented square hole plastic tape

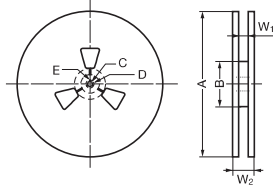


MPCH1055 Series [mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.2	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
24.0	11.5	1.75	24.0	2.0	4.0	1.55	0.4

MPCH1060 Series [mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.2	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
24.0	11.5	1.75	24.0	2.0	4.0	1.55	0.4

MPCH1250 Series [mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.2	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
24.0	11.5	1.75	24.0	2.0	4.0	1.55	0.4

Reel dimensions



[mm]							
A	B	C	D	E	r	W ₁	W ₂
±2.0	±1.0	±0.5	±0.8	±0.5		±2.0	±3.0
380	100	13.0	21.0	2.0	R1.0	24.4	30.4



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Large-Current Power Inductors MPLC Series

[RoHS Compliant]

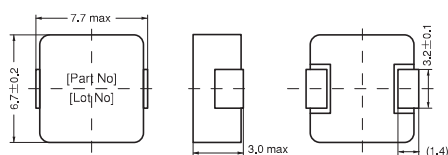


Model	Inductance at 100kHz, 1mA (μ H)	DC resistance (m Ω) max.	Rated current (A)	
			I _{rms} *1 (Ref.)	I _{sat} *2 (Ref.)
MPLC0730L1R0	1.0 $\pm$ 20%	9.0	10.6	11.0
MPLC0730L1R5	1.5 $\pm$ 20%	15.0	8.6	8.8
MPLC0730L2R2	2.2 $\pm$ 20%	19.0	7.3	8.2
MPLC0730L3R3	3.3 $\pm$ 20%	30.0	5.7	6.5
MPLC0730L4R7	4.7 $\pm$ 20%	41.0	5.0	5.6
MPLC1040L1R0	1.0 $\pm$ 20%	5.5	14.3	16.2
MPLC1040L1R5	1.5 $\pm$ 20%	7.0	12.4	12.7
MPLC1040L2R2	2.2 $\pm$ 20%	10.0	10.5	11.0
MPLC1040L3R3	3.3 $\pm$ 20%	14.0	8.8	9.3
MPLC1040L4R7	4.7 $\pm$ 20%	19.0	8.0	8.0

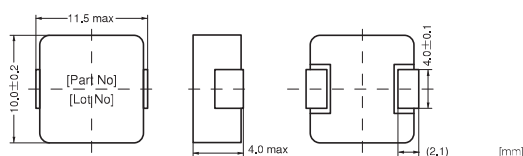
*1 T=40K rise at rated current. *2 Inductance drop 20% at rated current.
● Operating temperature range: -20 to +120°C (Including self-temperature rise)

Shape and Dimensions

● MPLC0730 Series

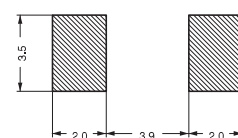


● MPLC1040 Series

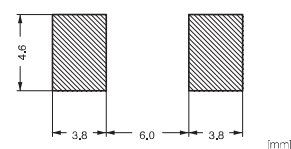


Recommended Land Pattern

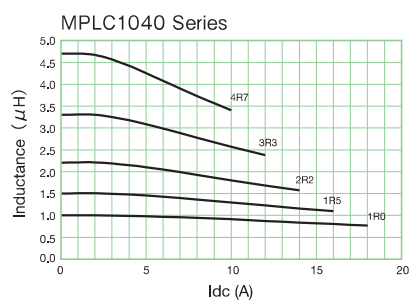
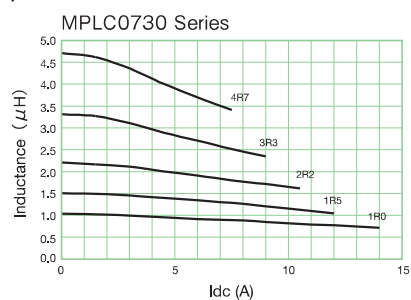
● MPLC0730 Series



● MPLC1040 Series



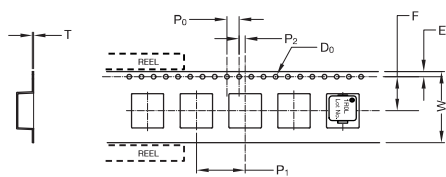
DC-Superposed Characteristics



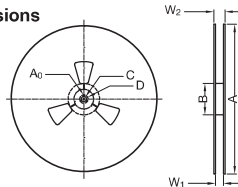
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MPLC0730 Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



Reel dimensions

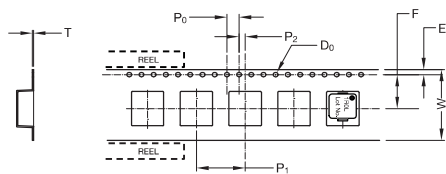


[mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
16.0	7.5	1.75	12.0	2.0	4.0	1.55	0.4

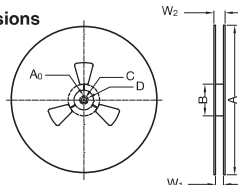
[mm]							
A	B	C	D	A ₀	r	W ₁	W ₂
±5.0	±6.0	±0.5	±0.8	±0.5		±1.0	±1.0
330	80	13.0	21.0	2.0	R1.0	17.5	21.5

MPLC1040 Series (500pcs./reel)

Dimensions of indented square hole plastic tape



Reel dimensions



[mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
24.0	11.5	1.75	16.0	2.0	4.0	1.55	0.4

[mm]							
A	B	C	D	A ₀	r	W ₁	W ₂
±2.0	±1.0	±0.5	±0.8	±0.5		±2.0	±3.0
330	80	13.5	21.0	2.0	R1.0	24.4	30.4



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Large-Current Power Inductors MPLCG Series

[RoHS Compliant]

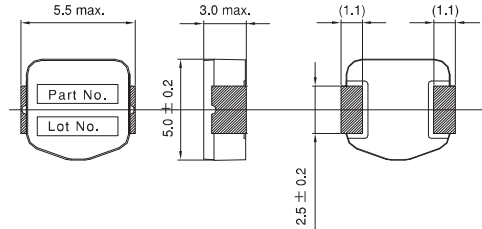


Model	Inductance (μ H) at 100kHz	DC resistance RDC (m Ω) max.	Rated current (A)	
			I _{rms} *1 (Ref.)	I _{sat} *2 (Ref.)
MPLCG0530LR22	0.22 $\pm$ 20%	3.7	14.1	10.2
MPLCG0530LR33	0.33 $\pm$ 20%	7.3	10.3	8.9
MPLCG0530LR47	0.47 $\pm$ 20%	8.4	9.5	8.9
MPLCG0530LR68	0.68 $\pm$ 20%	11.6	7.9	6.8
MPLCG0530LR82	0.82 $\pm$ 20%	12.4	7.7	6.7
MPLCG0530L1R0	1.00 $\pm$ 20%	14.6	7.4	5.6
MPLCG0530L1R5	1.50 $\pm$ 20%	21.7	5.9	5.6
MPLCG0530L2R2	2.20 $\pm$ 20%	36.4	4.5	5.0
MPLCG0630LR22	0.22 $\pm$ 20%	2.7	21.4	17.9
MPLCG0630LR33	0.33 $\pm$ 20%	4.3	16.9	17.3
MPLCG0630LR47	0.47 $\pm$ 20%	5.0	15.8	15.6
MPLCG0630LR68	0.68 $\pm$ 20%	6.0	14.2	12.6
MPLCG0630LR82	0.82 $\pm$ 20%	7.0	13.1	11.8
MPLCG0630L1R0	1.00 $\pm$ 20%	9.0	11.9	11.3
MPLCG0630L1R5	1.50 $\pm$ 20%	15.0	9.9	8.3
MPLCG0630L2R2	2.20 $\pm$ 20%	19.0	8.2	7.8
MPLCG0630L3R3	3.30 $\pm$ 20%	30.0	6.5	6.3
MPLCG0630L4R7	4.70 $\pm$ 20%	41.0	5.5	5.4
MPLCG0630L5R6	5.60 $\pm$ 20%	51.0	4.8	5.4
MPLCG0630L6R8	6.80 $\pm$ 20%	63.9	4.4	4.8
MPLCG0630L8R2	8.20 $\pm$ 20%	86.4	3.7	5.1
MPLCG0630L100	10.00 $\pm$ 20%	104.0	3.4	3.8

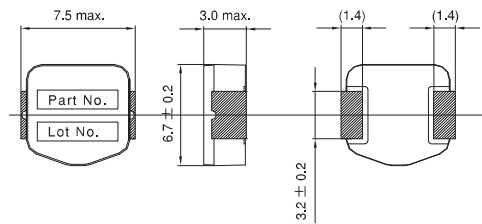
*1 T=40K rise at rated current. *2 Inductance drop 20% at rated current.
 ●Operating temperature range: -20 to +120°C (Including self-temperature rise)

Shape and Dimensions

●MPLCG0530 Series



●MPLCG0630 Series



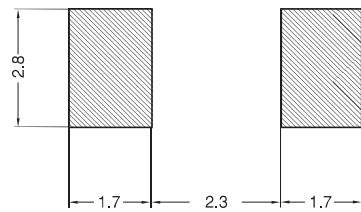
[mm]



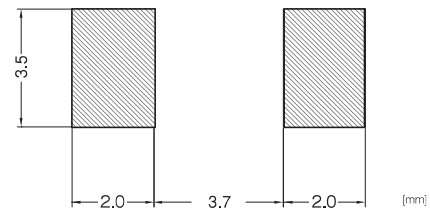
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Recommended Land Pattern

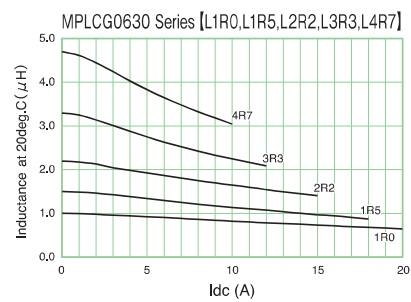
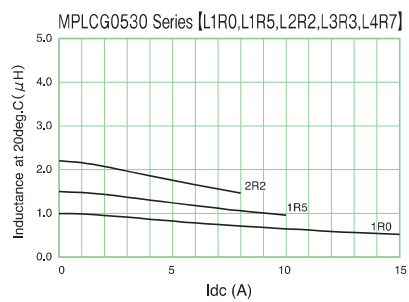
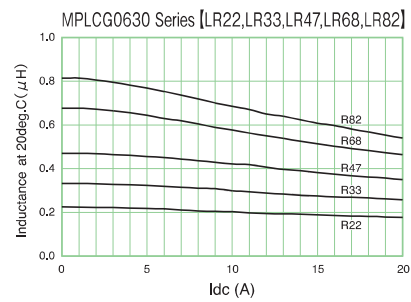
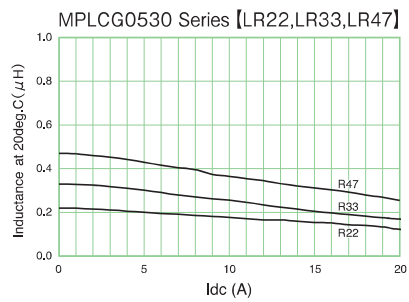
●MPLCG0530 Series



●MPLCG0630 Series



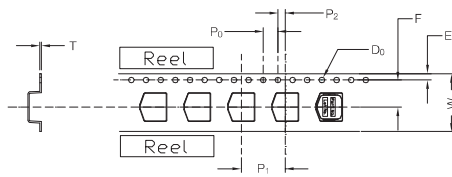
DC-Superposed Characteristics



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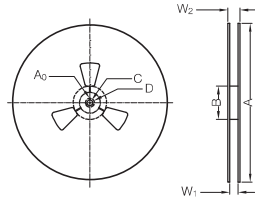
MPLCG0530 Series (3500pcs./reel)

Dimensions of indented square hole plastic tape



[mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
12.0	5.5	1.75	8.0	2.0	4.0	1.55	0.4

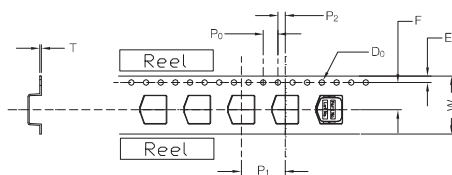
Reel dimensions



[mm]							
A	B	C	D	A ₀	r	W ₁	W ₂
±5.0	±10	±1.0	±0.8	±0.5		±1.5	±2.0
380	95	13.5	21.0	2.0	R1.0	14.5	18.5

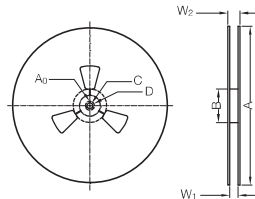
MPLCG0630 Series (2000pcs./reel)

Dimensions of indented square hole plastic tape



[mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
16.0	7.5	1.75	12.0	2.0	4.0	1.55	0.4

Reel dimensions



[mm]							
A	B	C	D	A ₀	r	W ₁	W ₂
±5.0	±10	±1.0	±0.8	±0.5		±1.0	±1.5
380	95	13.5	21.0	2.0	R1.0	18.0	21.6



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Large-Current Power Inductors MPLCH Series

[RoHS Compliant]



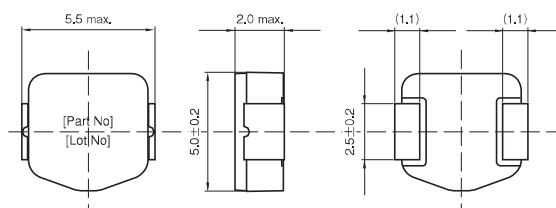
Model	Inductance (μ H) at 100kHz	DC resistance RDC (m Ω) max.	Rated current (A)	
			I _{rms} *1 (Ref.)	I _{sat} *2 (Ref.)
MPLCH0520LR22	0.22 $\pm$ 20%	5.7	10.1	14.2
MPLCH0520LR33	0.33 $\pm$ 20%	6.5	9.5	14.0
MPLCH0520L1R0	1.0 $\pm$ 20%	23.3	4.9	8.1
MPLCH0618LR22	0.22 $\pm$ 20%	3.9	16.1	22.4
MPLCH0618LR33	0.33 $\pm$ 20%	6.0	13.3	18.9
MPLCH0618L1R0	1.0 $\pm$ 20%	17.8	7.5	12.5
MPLCH0618L2R2	2.2 $\pm$ 20%	37.0	5.3	8.2
MPLCH0618L3R3	3.3 $\pm$ 20%	58.0	4.1	7.6
MPLCH0740L1R0	1.0 $\pm$ 20%	6.0	13.6	13.4
MPLCH0740L1R5	1.5 $\pm$ 20%	9.0	11.1	10.8
MPLCH0740L2R2	2.2 $\pm$ 20%	13.0	9.3	9.0
MPLCH0740L3R3	3.3 $\pm$ 20%	19.0	7.8	7.0
MPLCH0740L4R7	4.7 $\pm$ 20%	33.0	5.8	6.5

*1 T=40K rise at rated current, *2 Inductance drop 30% at rated current.

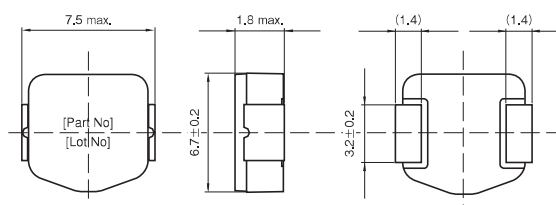
● Operating temperature range: -20 to +120°C (Including self-temperature rise)

Shape and Dimensions

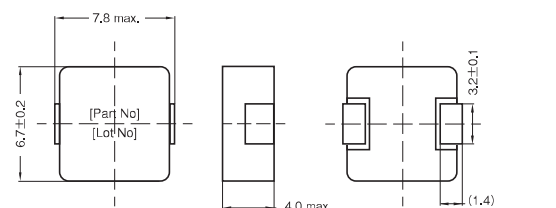
● MPLCH0520 Series



● MPLCH0618 Series



● MPLCH0740 Series



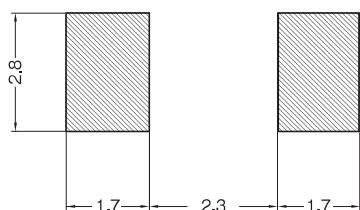
[mm]



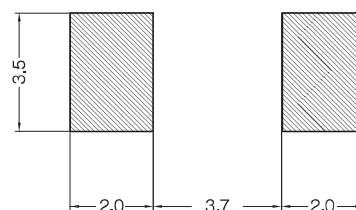
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Recommended Land Pattern

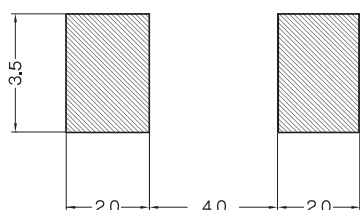
● **MPLCH0520 Series**



● **MPLCH0618 Series**



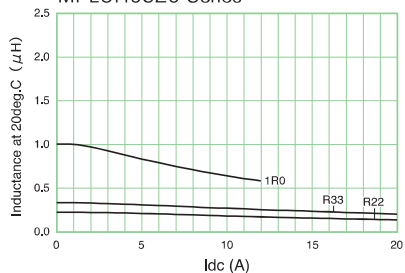
● **MPLCH0740 Series**



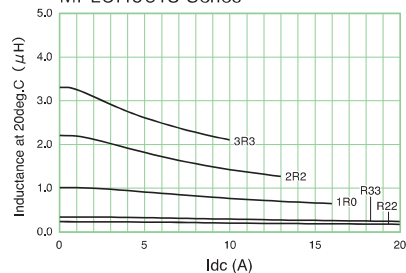
[mm]

DC-Superposed Characteristics

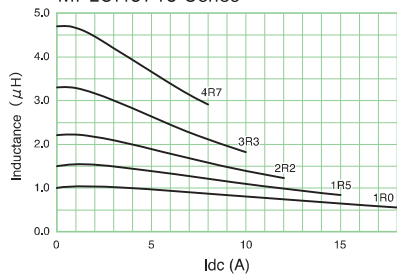
MPLCH0520 Series



MPLCH0618 Series



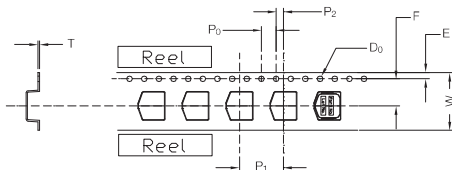
MPLCH0740 Series



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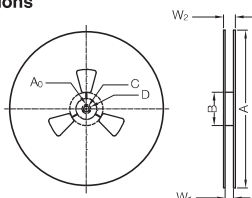
MPLCH0520 Series (5000pcs./reel)

Dimensions of indented square hole plastic tape



[mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
12.0	5.5	1.75	8.0	2.0	4.0	1.55	0.4

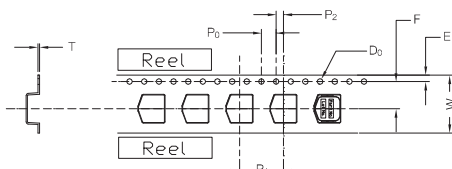
Reel dimensions



[mm]							
A	B	C	D	A ₀	r	W ₁	W ₂
±5.0	±10	±1.0	±0.8	±0.5		±1.5	±2.0
380	95	13.5	21.0	2.0	R1.0	14.5	18.5

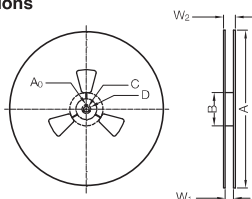
MPLCH0618 Series (3500pcs./reel)

Dimensions of indented square hole plastic tape



[mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
16.0	7.5	1.75	12.0	2.0	4.0	1.55	0.4

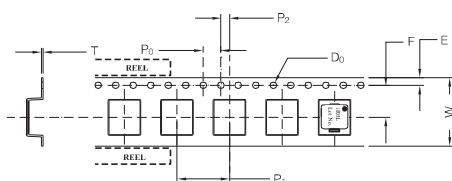
Reel dimensions



[mm]							
A	B	C	D	A ₀	r	W ₁	W ₂
±5.0	±10	±1.0	±0.8	±0.5		±1.0	±1.5
380	95	13.5	21.0	2.0	R1.0	18.0	21.6

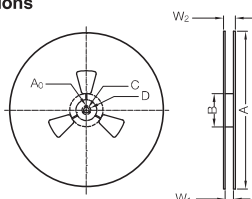
MPLCH0740 Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



[mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.2	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
16.0	7.5	1.75	12.0	2.0	4.0	1.55	0.4

Reel dimensions



[mm]							
A	B	C	D	A ₀	r	W ₁	W ₂
±2.0	±5.0	±0.2	±0.8	±0.5		±1.0	±1.0
330	80	13.0	21.0	2.0	R1.0	17.5	21.5



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Power Inductor for Automotive application MPLCV Series

[RoHS Compliant]



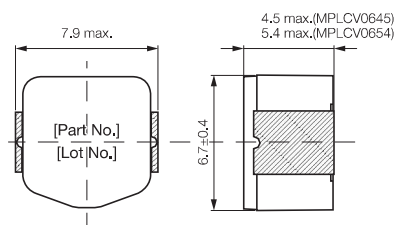
Model	Inductance (μ H) at 100kHz, 1mA	DC resistance DCR (m Ω)	Rated current (A)	
			I _{rms} *1 (Ref.)	I _{sat} *2 (Ref.)
MPLCV0645L 100	10 $\pm$ 20%	45 $\pm$ 10%	4.0	6.5
MPLCV0654L 4R7	4.7 $\pm$ 20%	20 $\pm$ 10%	6.3	10.5
MPLCV0654L 330	33 $\pm$ 20%	140 $\pm$ 10%	2.6	4.0
MPLCV0654L 470	47 $\pm$ 20%	175 $\pm$ 10%	2.1	3.0
MPLCV1054L 100	10 $\pm$ 20%	25 $\pm$ 10%	7.1	12.0
MPLCV1054L 220	22 $\pm$ 20%	47 $\pm$ 10%	5.5	7.0

*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.

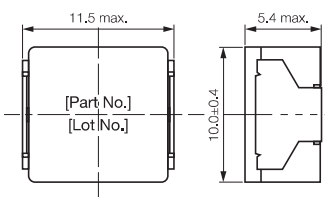
●Operating temperature range: -20 to +150°C (Including self-temperature rise), AEC-Q200 Compliant.

Shape and Dimensions

- MPLCV0645 Series
- MPLCV0654 Series

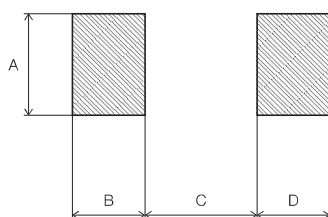


- MPLCV1054 Series



[mm]

Recommended Land Pattern



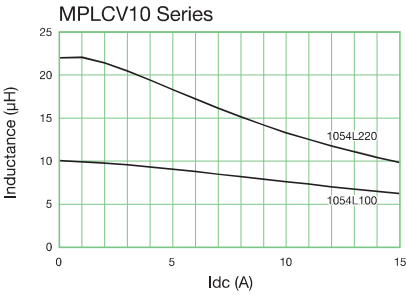
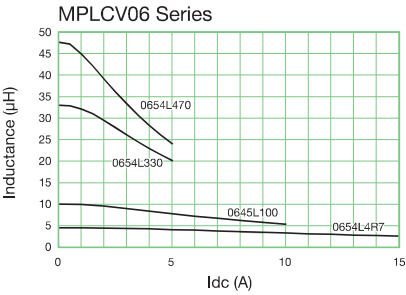
	A	B	C	D
MPLCV0645 Series	4.1	2.5	3.6	2.5
MPLCV0654 Series	4.1	2.5	3.6	2.5
MPLCV1054 Series	4.8	3.2	5.7	3.2

[mm]



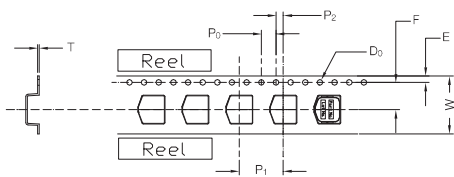
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DC-Superposed Characteristics



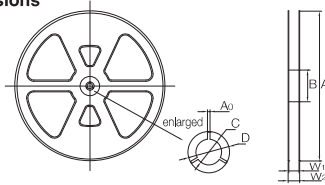
MPLCV0645/0654 Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



[mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
16.0	7.5	1.75	12.0	2.0	4.0	1.55	0.4

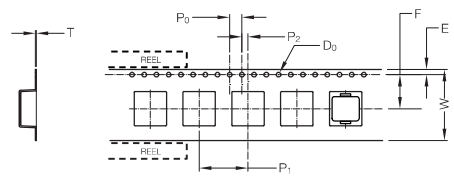
Reel dimensions



[mm]						
A	B	C	D	A ₀	W ₁	W ₂
±2.0	±2.0	±0.2	±0.8	±0.5		
380	80	13	21	2.3	17.5	21.5

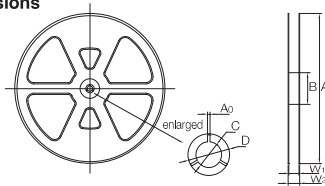
MPLCV1054 Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



[mm]							
W	F	E	P ₁	P ₂	P ₀	D ₀	T
±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.05
24.0	11.5	1.75	16.0	2.0	4.0	1.55	0.4

Reel dimensions



[mm]						
A	B	C	D	A ₀	W ₁	W ₂
±2.0	±2.0	±0.2	±0.8	±0.5		
380	80	13	21	2.3	25.5	29.5



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