

SMD TYPE

Large-Current Power Inductor MPLC Series

[RoHS Compliant]

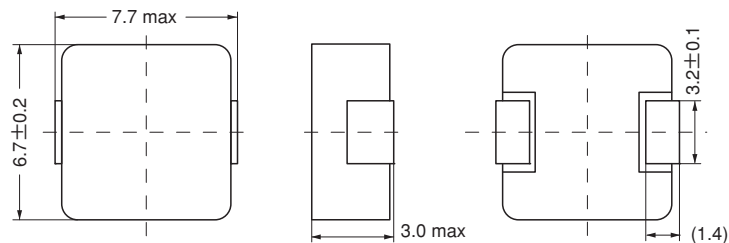


Model	Inductance at 100kHz, 1mA (μ H)	DC resistance (m Ω) max.	Rated current (A)	
			I _{rms} *1 (Ref.)	I _{sat} *2 (Ref.)
MPLC0730L1R0	1.0 \pm 20%	9.0	10.6	11.0
MPLC0730L1R5	1.5 \pm 20%	15.0	8.6	8.8
MPLC0730L2R2	2.2 \pm 20%	19.0	7.3	8.2
MPLC0730L3R3	3.3 \pm 20%	30.0	5.7	6.5
MPLC0730L4R7	4.7 \pm 20%	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

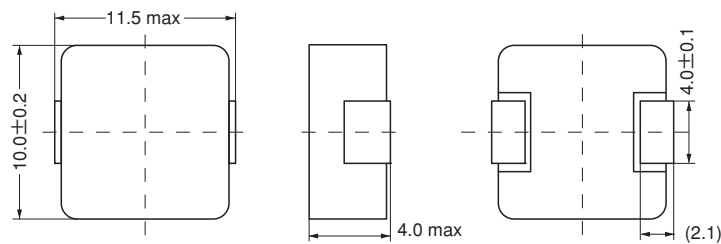
*1 T=40K rise at rated current. *2 Inductance drop 20% at rated current.
Operating temperature range:-20°C~+120°C (Include self temperature rise)

Shape and Dimensions

● MPLC0730 Series



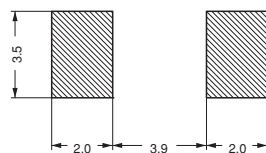
● MPLC1040 Series



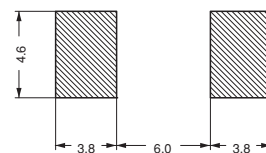
[mm]

Recommended Land Pattern

● MPLC0730 Series



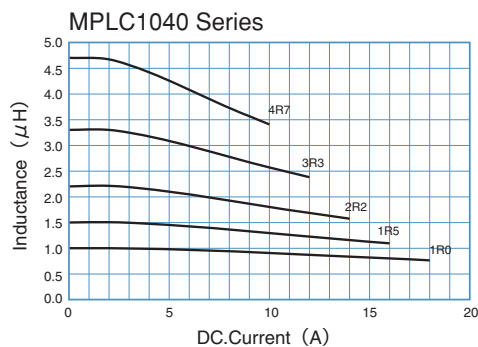
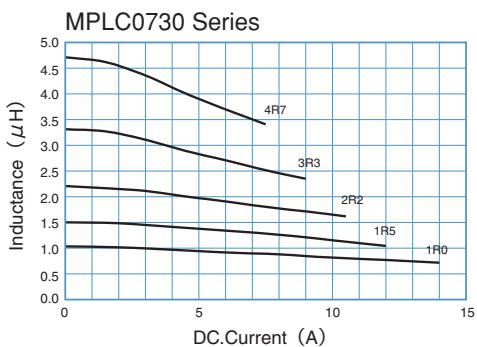
● MPLC1040 Series



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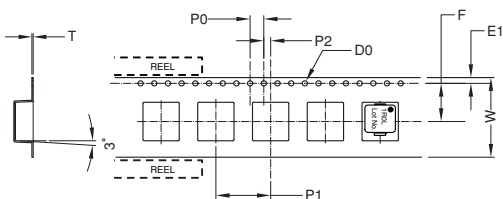
SMD TYPE

DC-Superposed Characteristics



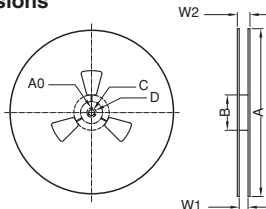
MPLC0730 Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



W	F	E ₁	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

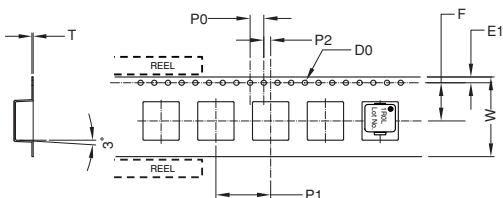
Reel dimensions



A	B	C	D	A ₀	r	W ₁	W ₂
±5.0	±5.0	±0.5	±0.8	±0.5		±0.5	±0.5
∅380	∅80	∅13.5	∅21.0	2.0	R1.0	25.5	29.5

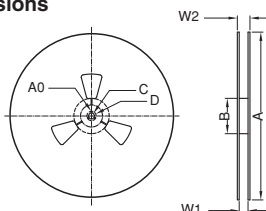
MPLC1040 Series (500pcs./reel)

Dimensions of indented square hole plastic tape



W	F	E ₁	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



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

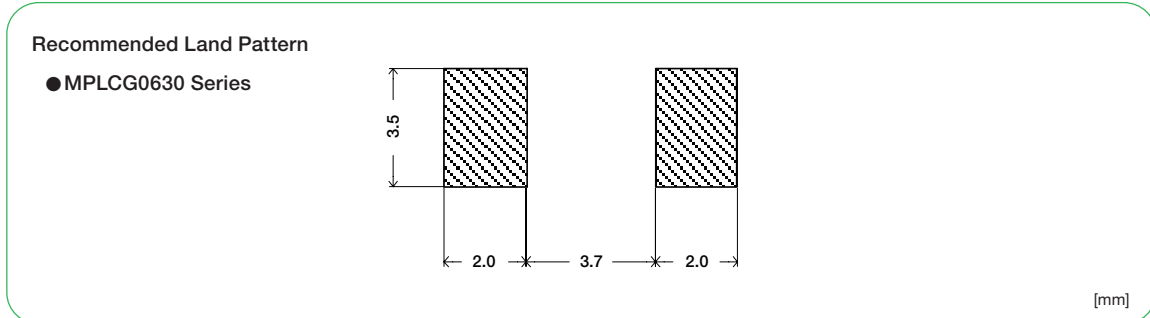
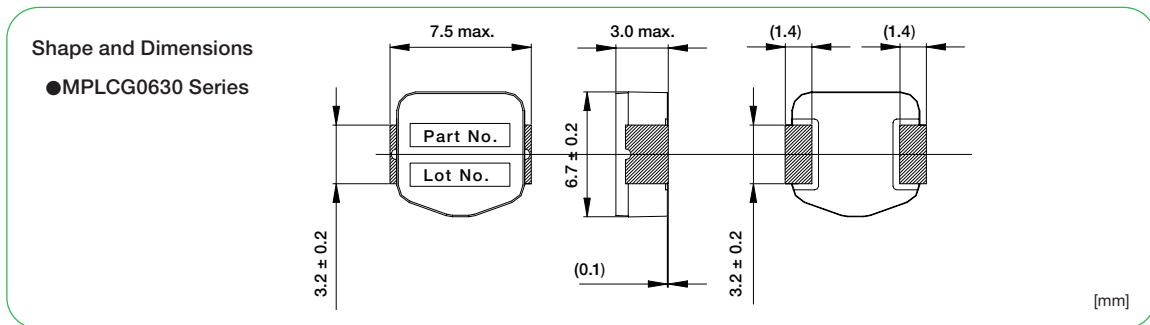


Large-Current Power Inductor
MPLCG Series
 [RoHS Compliant]



Model	Inductance (μ H) at 100kHz	DC resistance RDC(m Ω)max.	Rated Current(A)	
			I _{rms} ^{※1} (Ref.)	I _{sat} ^{※2} (Ref.)
MPLCG0630L1R0	1.0 \pm 20%	9.0	11.9	11.3
MPLCG0630L1R5	1.5 \pm 20%	15.0	9.9	8.3
MPLCG0630L2R2	2.2 \pm 20%	19.0	8.2	7.8
MPLCG0630L3R3	3.3 \pm 20%	30.0	6.5	6.3
MPLCG0630L4R7	4.7 \pm 20%	41.0	5.5	5.4

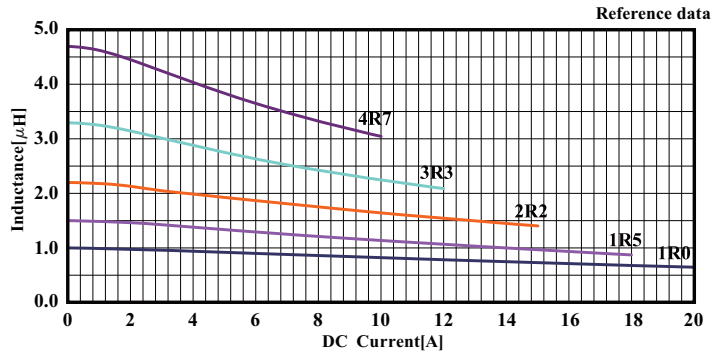
※1 T=40K rise at rated current. ※2 Inductance drop 20% at rated current.
 ●Operating temperature range: -20~+120h°C (Include self temperature rise)



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 ●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.

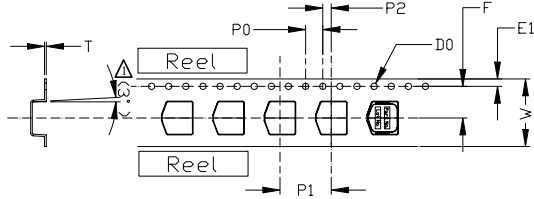
DC-Superposed Characteristics

● MPLCG0630 Series



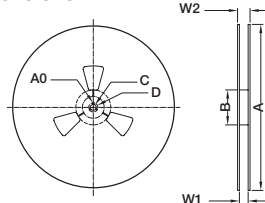
MPLCG0630 Series (2000pcs./reel)

Dimensions of indented square hole plastic tape



W	F	E1	P1	P2	P0	φD0	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



A	B	C	D	A0	r	W1	W2
±1.0	±10	±0.5	±0.8	±0.5		±1.0	±1.5
φ380	φ95	φ13.0	φ21.0	2.0	R1.0	18.0	21.6

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- 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.
- The products in this catalog are intended for use in ordinary electronic products. If any of these products are to be used in special applications requiring extremely high reliability, such as in aviation equipment and nuclear power controllers where product defects might pose a safety risk, please consult your NEC TOKIN sales representatives.
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