



Low profile high current power inductors - MPLD8050M1



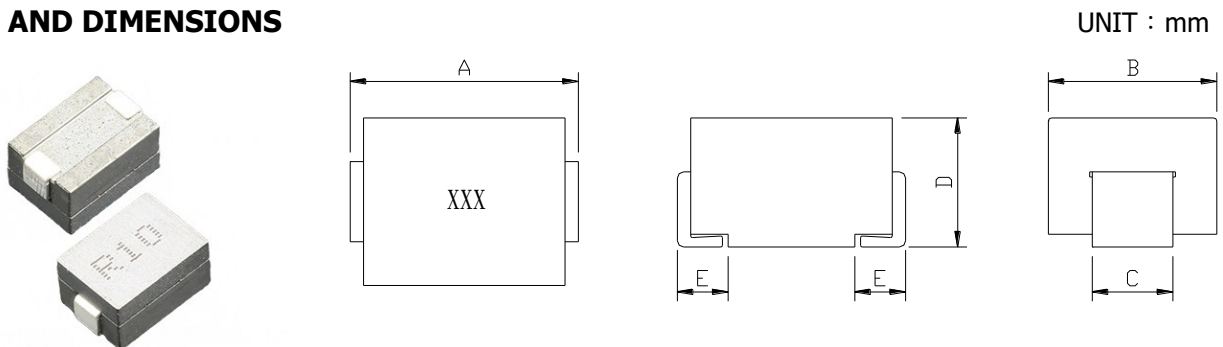
PART NUMBERING SYSTEM

MLPD	8050M1	—	R15M
TYPE	DIMENSIONS		INDUCTANCE

Electrical Characteristic

- Storage temperature range : -40°C to + 125°C.
 - Operating ambient temperature range : -40°C to + 125°C
(range is application specific)
 - Infrared reflow temperature : +260°C for 10 seconds maximum.
 - Frequency Range : 300KHz to 2MHz.
- Surface mount inductors designed for high speed, high current switch mode applications requiring lower inductance.
 - Gapped ferrite cores for maximum efficiency.
 - Inductance values from 72nH to 310nH.
 - Current range up to 60 Amps.

SHAPES AND DIMENSIONS



A=7.5±0.5 B=7.3±0.5 C=3.2 Ref. D=4.95 Ref. E=2.2 Ref.



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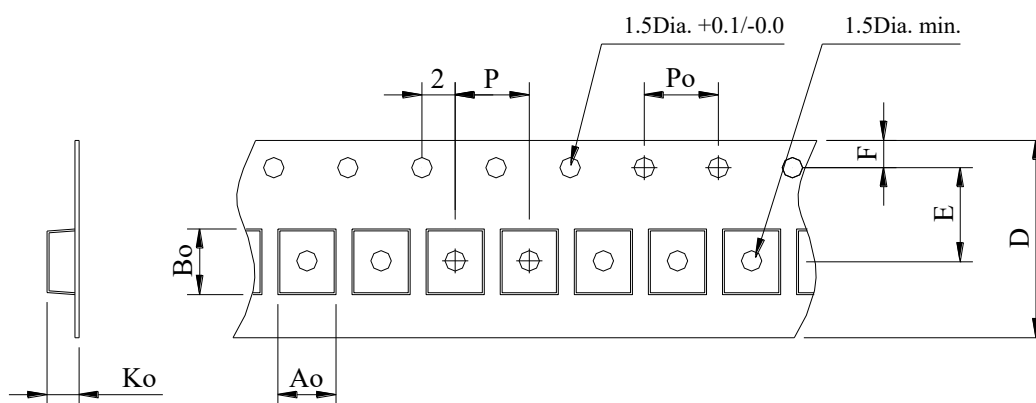


SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (nH)	DCR (mΩ) (Max.)	I rms Amps	I sat Amps	
MPLD8050M1-72NM	72±20%	0.18	65.0	90.0	
MPLD8050M1-R10M	100±20%	0.18	65.0	60.0	
MPLD8050M1-R15M	150±20%	0.18	65.0	32.0	
MPLD8050M1-R20M	200±20%	0.18	65.0	28.0	
MPLD8050M1-R22M	220±20%	0.18	65.0	25.0	
MPLD8050M1-R31M	310±20%	0.18	65.0	18.0	

- Isat: DC current at which the inductance drops 30% (typ) from its value without current.
- Irms: Average current for 40°C temperature rise from 25°C ambient.
- Operating temperature range -40°C to +125°C ,
- Electrical specifications at 25°C .

PACKAGING SPECIFICATION



STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)							
		Ao	Bo	Ko	P	Po	D±0.3	E	F
13~16	1,000	7.0	7.2	5.4	12.0	4.0	16.0	7.5	1.75