

MD Series

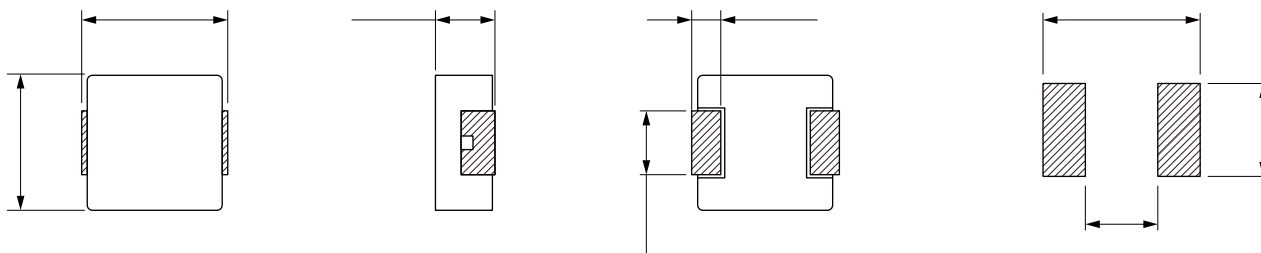


CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 4000pcs

APPLICATION

- High current DC/DC converter
- LC filter



Part No	Inductance @ 100KHz/1V (μ H)	Tolerance	Temperature Rise Current Typ. (A)	Saturation Current Typ. (A)	DC Resistance Typ. (m Ω)	DC Resistance Max. (m Ω)
	0.22	$\pm 20\%$	6.5	10	14	17
	0.33	$\pm 20\%$	6.2	9.2		20
	0.36	$\pm 20\%$	6.0	8.5	18.5	
MD3512-R47M	0.47	$\pm 20\%$	5.0	7.2		30
	0.56	$\pm 20\%$	4.5	6.6		
	0.68	$\pm 20\%$	4.0	6.1	34	40
	0.82	$\pm 20\%$	3.5	5.8	41	48
MD3512-1R0M	1.00	$\pm 20\%$	3.3	5.5	50	60
	1.50	$\pm 20\%$	3.0	4.0	71	
	2.20	$\pm 20\%$	2.7	3.4		
	3.30	$\pm 20\%$	2.0	3.1		210
MD3512-4R7M	4.70	$\pm 20\%$	1.6	2.8		
	5.60	$\pm 20\%$	1.5	2.2	310	360

Part No	Inductance @ 100KHz/1V (μ H)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DC Resistance Typ. (m Ω)	DC Resistance Max. (m Ω)
	6.80	$\pm 20\%$	1.4	2.0	360	400
	8.20	$\pm 20\%$	1.2	1.7	420	463
MD3512-100M	10.0	$\pm 20\%$	1.0	1.4	498	550

Operating temperature : $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$

Temperature rise current : The actual value of DC current when the temperature rise is $\Delta T 40^{\circ}\text{C}$

Saturation Current will cause L to drop approximately 30%

