

# MD Series

## SMD Low Profile High Current Molded Inductor

### Size 4012



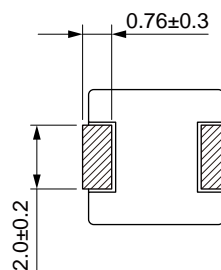
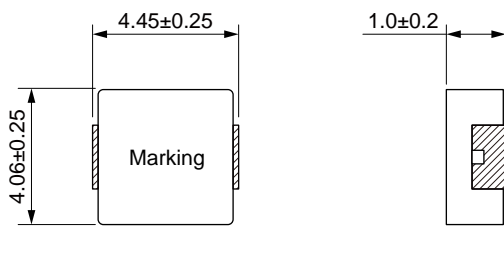
#### CHARACTERISTICS

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

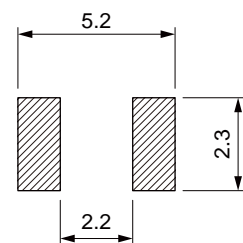
#### APPLICATION

- High current DC/DC converter
- LC filter

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

	( $\mu$ H)			Saturation	(m $\Omega$ )	(m $\Omega$ )
MD4012-R10N	0.10	$\pm 30\%$	11.5	25	4.30	5.50
MD4012-R22M	0.22	$\pm 20\%$	8.5	20	6.60	8.00
MD4012-R33M	0.33	$\pm 20\%$	7.0	11	13.6	16.0
MD4012-R36M	0.36	$\pm 20\%$	6.5	8.5	15.5	18.0
MD4012-R47M	0.47	$\pm 20\%$	6.0	6.5	18.0	20.0
MD4012-R68M	0.68	$\pm 20\%$	5.0	6.0	32.0	37.0
MD4012-1R0M	1.00	$\pm 20\%$	4.0	6.0	41.0	47.0
MD4012-1R5M	1.50	$\pm 20\%$	3.0	4.0	55.0	63.3
MD4012-2R2M	2.20	$\pm 20\%$	2.8	3.5	69.2	80.0
MD4012-3R3M	3.30	$\pm 20\%$	2.3	3.0	84.0	97.0
MD4012-4R7M	4.70	$\pm 20\%$	2.0	2.5	128	145
MD4012-5R6M	5.60	$\pm 20\%$	1.7	2.3	180	208
MD4012-6R8M	6.80	$\pm 20\%$	1.5	1.7	300	360
MD4012-8R2M	8.20	$\pm 20\%$	1.4	1.6	313	376
MD4012-100M	10.0	$\pm 20\%$	1.3	1.4	410	463
MD4012-220M	22.0	$\pm 20\%$	0.8	1.0	950	1050

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  $\leq 40^{\circ}\text{C}$

Saturation Current will cause L to drop approximately 30%

## Typical Electrical Characteristics:

