

HIGH CURRENT POWER INDUCTORS / SIC TYPE

FEATURES

- ◆ Clip Plated Type, Low Profile.
- ◆ High power, High saturation inductors.
- ◆ Ideal inductors for DC-DC conversion.
- ◆ Available on tape and reel for auto surface mounting.



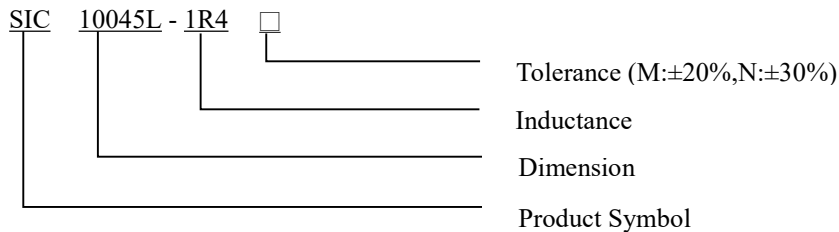
APPLICATIONS

- ◆ Servers.
- ◆ Power systems.
- ◆ DC/DC converters.
- ◆ Various categories of consumer electronics.

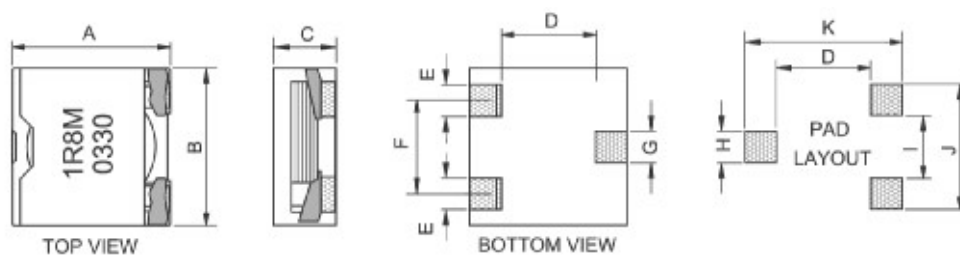
INDUCTANCE AND RATED CURRENT RANGES

- ◆ SIC10045L 0.36~4.3uH 18.0~5.0A
- ◆ SIC10056L 0.36~8.8uH 19.0~4.8A
- ◆ SIC10056H 0.15~3.0uH 19.0~4.9A
- ◆ SIC12057 1.5~10.0uH 14.0~5.0A
- ◆ SIC12057U 0.35~5.6uH 18.5~7.6A
- ◆ SIC13050H 0.3~6.0uH 18.5~6.5A

ORDERING CODE



SHAPES



DIMENSIONS (UNIT: mm)

Part No.	A (Max)	B (Max)	C (Max)	D (Ref)	E (Ref)	F (Ref)	G (Ref)	H (Ref)	I (Ref)	J (Ref)	K (Ref)
SIC10045	10.4	10.4	4.5	6.7	2.6	5.5	1.4	2.0	2.5	8.5	11.0
SIC10056	10.4	10.4	5.6	6.7	2.6	5.5	1.4	2.0	2.5	8.5	11.0
SIC12057	12.9	12.9	5.7	8.2	2.6	7.0	2.5	3.0	4.0	10.0	13.5
SIC13050	13.9	13.9	5.0	9.6	2.6	7.2	2.5	2.6	4.4	10.0	15.0



CORE MASTER ENTERPRISE CO., LTD.

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Part No.	Inductance (uH)	RDC (mΩ) Max			IDC (A) Max		
		10045L	10056L	10056H	10045L	10056L	10056H
R15	0.15			1.7			19.0
R22	0.22						
R30	0.30			2.4			17.7
R36	0.36	2.2	1.7		18.0	19.0	
R45	0.45						
R50	0.50			4.1			13.0
R80	0.80	3.7	2.4	5.3	13.4	16.0	11.2
1R2	1.20			7.5			9.0
1R3	1.30						
1R4	1.40	5.9	4.1		10.2	12.0	
1R5	1.50			10.5			7.8
1R8	1.80						
2R0	2.00			12.4			7.4
2R2	2.20	11.8	5.3		7.3	9.6	
2R5	2.50						
3R0	3.00			23.8			4.9
3R2	3.20	18.6	7.5		5.4	7.8	
4R0	4.00						
4R3	4.30	21.8	10.5		5.0	6.8	
5R0	5.00						
5R7	5.70		12.4			5.8	
7R2	7.20		18.0			5.3	
8R8	8.80		23.8			4.8	

★ Test Frequency: 100KHz / 1V



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Part No.	Inductance (uH)	RDC (mΩ) Max			IDC (A) Max		
		12057	12057U	13050H	12057	12057U	13050H
R30	0.30			1.9			18.5
R35	0.35		1.8			18.5	
R40	0.40						
R66	0.66			2.5			17.0
R80	0.80		2.5			16.5	
R90	0.90						
1R0	1.00						
1R2	1.20			3.7			15.0
1R4	1.40		3.4			15.5	
1R5	1.50	2.5			14.0		
1R6	1.60						
1R8	1.80			6.6			10.5
2R2	2.20		5.4			12.5	
2R5	2.50	3.4			10.0		
2R7	2.70			10.8			8.0
2R8	2.80						
3R2	3.20		8.0			9.9	
3R6	3.60			12.0			7.5
4R0	4.00	8.0			8.3		
4R3	4.30		11.4			8.2	
4R8	4.80			16.3			7.0
5R6	5.60		13.5			7.6	
6R0	6.00	8.0		18.4	6.7		6.5
6R4	6.40						
7R2	7.20						
8R0	8.00						
8R2	8.20	11.4			5.8		
100	10.00	13.5			5.0		

★ Test Frequency: 100KHz / 1V



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