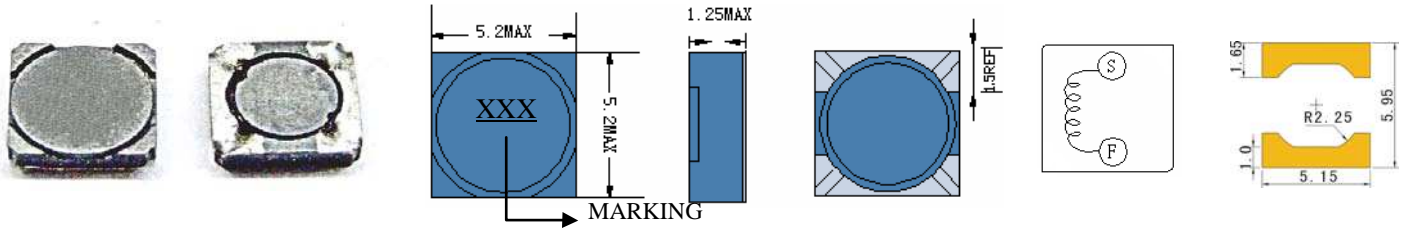


# SCMS5D12

## SMD POWER INDUCTORS



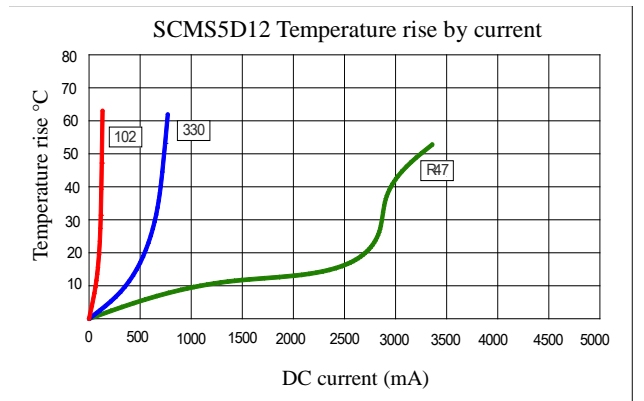
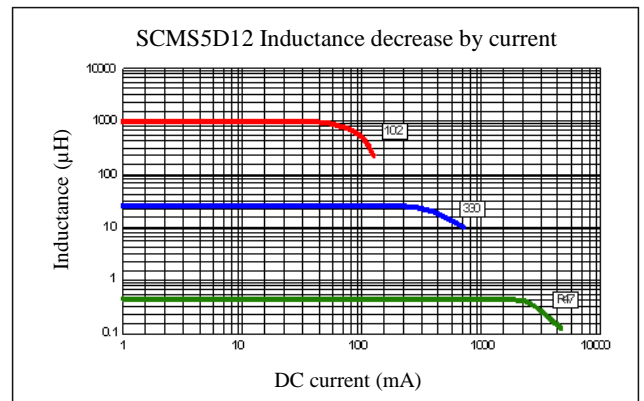
### • Features

1. Magnetically shielded construction – Low EMI
2. Excellent Power Density
3. Engineered to Provide High Efficiency
4. High Inductance, Wide Current Range, Low Profile

## ELECTRICAL CHARACTERISTICS



Part Number	Inductance (uH) (1)	Test Frequency	DC Resistance (Ω MAX) (2)	Saturation Current <sup>(3)</sup> (A)	Temperature Current <sup>(4)</sup> (A)
SCMS5D12-R47	0.47	100KHZ	27m	3.40	2.85
SCMS5D12-1R2	1.2	100KHZ	40m	2.15	2.00
SCMS5D12-1R5	1.5	100KHZ	57m	1.80	1.95
SCMS5D12-2R2	2.2	100KHZ	82m	1.60	1.70
SCMS5D12-3R3	3.3	100KHZ	115m	1.25	1.53
SCMS5D12-4R7	4.7	100KHZ	129m	1.00	1.37
SCMS5D12-6R2	6.2	100KHZ	187m	0.95	1.23
SCMS5D12-8R2	8.2	100KHZ	264m	0.82	1.10
SCMS5D12-100	10	100KHZ	313m	0.75	1.04
SCMS5D12-150	15	100KHZ	450m	0.61	0.85
SCMS5D12-220	22	100KHZ	697m	0.51	0.83
SCMS5D12-330	33	100KHZ	1.02	0.40	0.66
SCMS5D12-470	47	100KHZ	1.50	0.33	0.52
SCMS5D12-680	68	100KHZ	2.37	0.29	0.41
SCMS5D12-820	82	100KHZ	2.59	0.26	0.36
SCMS5D12-101	100	100KHZ	2.90	0.23	0.32
SCMS5D12-151	150	100KHZ	4.35	0.19	0.26
SCMS5D12-221	220	100KHZ	5.23	0.16	0.23
SCMS5D12-331	330	100KHZ	7.97	0.12	0.20
SCMS5D12-471	470	100KHZ	10.50	0.10	0.18
SCMS5D12-681	680	100KHZ	16.00	0.084	0.14
SCMS5D12-821	820	100KHZ	17.76	0.075	0.12
SCMS5D12-102	1000	100KHZ	23.40	0.066	0.11



(1). Inductance tolerance for 0.47uH~8.2uH:  $\pm 30\%$ , for 10uH~1000uH:  $\pm 20\%$ . Tested at 0.25V, 0ADC and 25°C

(2). DCR measured at 25°C.

(3). The DC current at which the inductance decreases by 30% from its initial value.

(4). The DC current that results in a 40°C temperature rise from 25°C ambient.

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**Custom versions available upon request.**