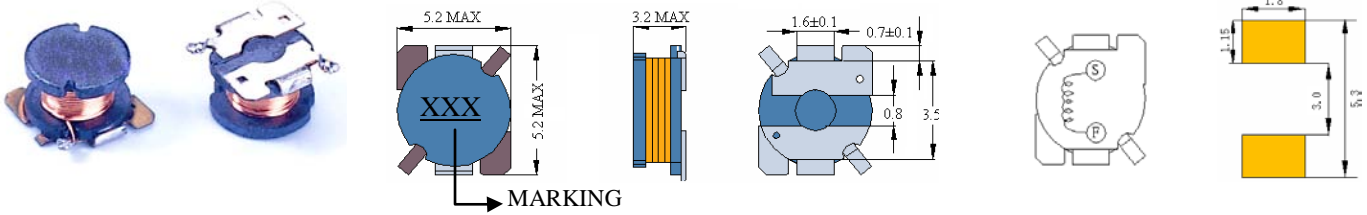


# SC53FU

## SMD POWER INDUCTORS



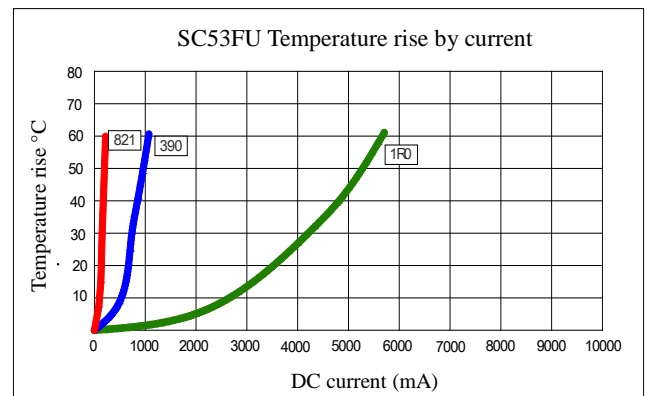
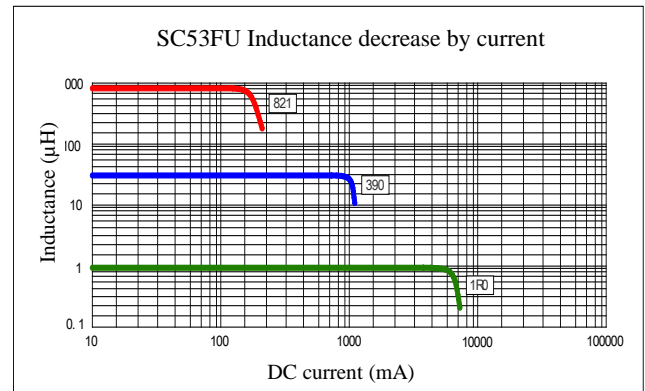
### • Features

1. Open frame construction
2. Excellent Power Density
1. Engineered to Provide High Efficiency



## CHARACTERISTICS

Part Number	Inductance (uH) (1)	Test Frequency	DC Resistance (Ω MAX) (2)	Saturation Current (A) (3)	Temperature Current (A) (4)
SC53FU-1R0	1.0	100KHZ	37m	4.5	4.30
SC53FU-2R2	2.2	100KHZ	51m	3.4	3.50
SC53FU-2R7	2.7	100KHZ	57m	3.0	3.00
SC53FU-3R3	3.3	100KHZ	70m	2.5	2.50
SC53FU-4R7	4.7	100KHZ	89m	2.3	2.00
SC53FU-5R6	5.6	100KHZ	91m	2.0	1.86
SC53FU-6R8	6.8	100KHZ	104m	1.7	1.60
SC53FU-8R2	8.2	100KHZ	117m	1.5	1.50
SC53FU-100	10	100KHZ	140m	1.3	1.42
SC53FU-120	12	100KHZ	169m	1.2	1.36
SC53FU-150	15	100KHZ	193m	1.1	1.30
SC53FU-180	18	100KHZ	234m	1.0	1.20
SC53FU-220	22	100KHZ	267m	0.92	1.08
SC53FU-270	27	100KHZ	350m	0.90	0.88
SC53FU-330	33	100KHZ	430m	0.80	0.80
SC53FU-390	39	100KHZ	500m	0.72	0.74
SC53FU-470	47	100KHZ	610m	0.65	0.66
SC53FU-560	56	100KHZ	690m	0.59	0.60
SC53FU-680	68	100KHZ	850m	0.54	0.54
SC53FU-820	82	100KHZ	1.00	0.50	0.50
SC53FU-101	100	100KHZ	1.30	0.45	0.45
SC53FU-121	120	100KHZ	1.45	0.41	0.41
SC53FU-151	150	100KHZ	2.04	0.37	0.38
SC53FU-181	180	100KHZ	2.30	0.33	0.35
SC53FU-221	220	100KHZ	2.78	0.30	0.31
SC53FU-271	270	100KHZ	3.30	0.27	0.28
SC53FU-331	330	100KHZ	4.30	0.25	0.25
SC53FU-391	390	100KHZ	4.80	0.23	0.23
SC53FU-471	470	100KHZ	6.90	0.21	0.20
SC53FU-561	560	100KHZ	7.50	0.19	0.18
SC53FU-681	680	100KHZ	9.20	0.17	0.17
SC53FU-821	820	100KHZ	10.4	0.15	0.15



- (1). Inductance tolerance for 1.0uH~8.2uH:  $\pm 30\%$ , for 10uH~820uH:  $\pm 20\%$ . Tested at 0.25V, 0ADC and 25°C
- (2). DCR measured at 25°C.
- (3). The DC current at which the inductance decreases by 10% 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.

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