

FEATURES

- Non-Shielded magnetic circuit design.
- Higher current design.
- Takes up less PCB real estate and save more power

APPLICATIONS

- LED Lighting
- Mobile devices with multifunction such as adding color TV and digital movie camera
- Flat-screen TVs, blue-ray disc recorders, set top boxes
- Notebooks, desktop computers, servers, graphic cards
- Portable gaming devices, personal navigation systems, personal multimedia devices
- Automotive systems
- Telecomm base stations.



PRODUCT IDENTIFICATION

SQ 3225 – 221 K – T
a b c d e

a : Series name

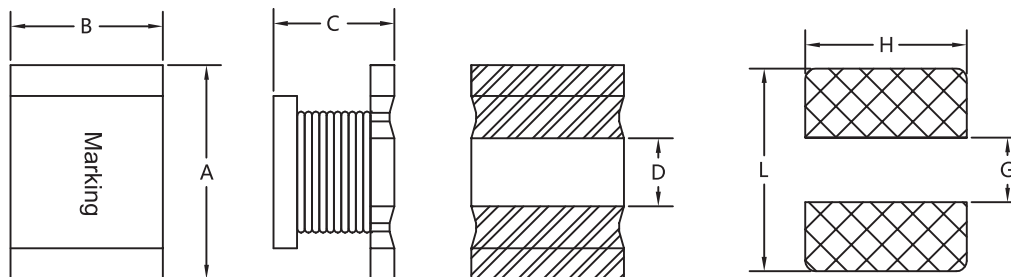
b : Product dimensions

c : Inductance Value (1R0:1.0uH; 100: 10uH; 101:100uH)

d : Inductance Tolerance (K:10% ; M:20% ; N:30%)

e : Packaging style (T: Taping; B: bulk)

SHAPES AND DIMENSIONS Unit: mm



Series	Dimensions(mm)						
	A	B	C	D	L	G	H
SQ2015	2.0±0.2	1.5±0.2	1.7±0.2	0.8	3.0	0.8	1.7
SQ2520	2.5±0.2	2.0±0.2	1.8±0.2	1.0	3.9	1.0	2.2
SQ3216	3.2±0.3	1.6±0.3	1.8±0.3	1.2	4.4	1.2	1.8
SQ3225	3.2±0.3	2.5±0.3	2.2±0.3	1.2	4.4	1.2	2.7
SQ4532	4.5±0.3	3.2±0.3	2.6±0.3	1.5	5.9	1.3	3.5
SQ5750	5.7±0.3	5.0±0.3	4.5±0.3	2.1	7.5	2.0	5.5

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SQ2015-1R0MT	1.0	7.96M	0.208	0.70
SQ2015-2R2MT	2.2	7.96M	0.299	0.62
SQ2015-4R7MT	4.7	7.96M	0.520	0.43
SQ2015-100KT	10.0	2.52M	0.910	0.30
SQ2015-220KT	22.0	2.52M	2.210	0.22

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SQ2520-1R0MT	1.0	7.96M	0.442	0.475
SQ2520-1R5MT	1.5	7.96M	0.546	0.435
SQ2520-2R2MT	2.2	7.96M	0.650	0.390
SQ2520-3R3MT	3.3	7.96M	0.845	0.340
SQ2520-4R7MT	4.7	7.96M	1.040	0.285
SQ2520-6R8MT	6.8	7.96M	1.300	0.275
SQ2520-100KT	10.0	2.52M	2.197	0.210
SQ2520-150KT	15.0	2.52M	2.860	0.175
SQ2520-220KT	22.0	2.52M	3.640	0.160
SQ2520-330KT	33.0	2.52M	5.460	0.120

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SQ3216-R12MT	0.12	1.0M	0.112	0.970
SQ3216-R22MT	0.22	1.0M	0.140	0.850
SQ3216-R47MT	0.47	1.0M	0.210	0.700
SQ3216-1R0MT	1.00	1.0M	0.364	0.510
SQ3216-2R2MT	2.20	1.0M	0.533	0.430
SQ3216-4R7MT	4.70	1.0M	0.845	0.340
SQ3216-100KT	10.0	1.0M	1.690	0.230
SQ3216-220KT	22.0	1.0M	3.900	0.160
SQ3216-470KT	47.0	1.0M	10.400	0.100
SQ3216-101KT	100.0	1.0M	15.600	0.080

Note:

Rated current: The DC current at which the inductance decreases to 90 % of its initial value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower($T_a=20^{\circ}\text{C}$)

ELECTRICAL CHARACTERISTICS

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SQ3225-1R0MT	1.0	1.0M	0.117	0.800
SQ3225-2R2MT	2.2	1.0M	0.169	0.600
SQ3225-4R7MT	4.7	1.0M	0.260	0.450
SQ3225-100KT	10.0	1.0M	0.572	0.300
SQ3225-220KT	22.0	1.0M	0.923	0.250
SQ3225-470KT	47.0	1.0M	1.690	0.170
SQ3225-101KT	100.0	1.0M	4.550	0.100
SQ3225-221KT	220.0	1.0M	10.92	0.070
SQ3225-331KT	330.0	1.0M	13.00	0.060
SQ3225-391KT	390.0	1.0M	22.10	0.060
SQ3225-471KT	470.0	1.0K	24.70	0.060
SQ3225-561KT	560.0	1.0K	28.60	0.060

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SQ4532-4R7MT	4.7	1.0M	0.15	0.75
SQ4532-6R8MT	6.8	1.0M	0.20	0.72
SQ4532-100KT	10.0	1.0M	0.24	0.65
SQ4532-150KT	15.0	1.0M	0.32	0.57
SQ4532-220KT	22.0	1.0M	0.60	0.42
SQ4532-330KT	33.0	1.0M	1.00	0.31
SQ4532-470KT	47.0	1.0M	1.10	0.28
SQ4532-680KT	68.0	1.0M	1.70	0.22
SQ4532-101KT	100.0	1.0M	2.20	0.19
SQ4532-151KT	150.0	1.0M	3.50	0.13
SQ4532-221KT	220.0	1.0M	4.00	0.11
SQ4532-331KT	330.0	1.0M	6.80	0.10
SQ4532-471KT	470.0	1.0K	8.50	0.09

Note:

Rated current: The DC current at which the inductance decreases to 90 % of its initial value or when $\Delta t = 40^{\circ}\text{C}$, whichever is lower($T_a = 20^{\circ}\text{C}$)

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SQ5750-1R0MT	1.0	1.0M	0.020	9.00
SQ5750-1R2MT	1.2	1.0M	0.024	8.81
SQ5750-1R5MT	1.5	1.0M	0.028	7.80
SQ5750-1R8MT	1.8	1.0M	0.032	7.08
SQ5750-2R2MT	2.2	1.0M	0.035	6.54
SQ5750-2R7MT	2.7	1.0M	0.045	5.83
SQ5750-3R3MT	3.3	1.0M	0.054	5.48
SQ5750-3R9MT	3.9	1.0M	0.056	5.27
SQ5750-4R7MT	4.7	1.0M	0.081	4.48
SQ5750-5R6MT	5.6	1.0M	0.100	3.91
SQ5750-6R8MT	6.8	1.0M	0.124	3.57
SQ5750-8R2MT	8.2	1.0M	0.150	3.28
SQ5750-100MT	10.0	1.0M	0.167	3.06
SQ5750-120MT	12.0	1.0M	0.190	2.95
SQ5750-150MT	15.0	1.0M	0.215	2.63
SQ5750-180MT	18.0	1.0M	0.256	2.46
SQ5750-220MT	22.0	1.0M	0.322	2.21
SQ5750-270MT	27.0	1.0M	0.389	1.78
SQ5750-330MT	33.0	1.0M	0.448	1.75
SQ5750-390MT	39.0	1.0M	0.486	1.70
SQ5750-470MT	47.0	1.0M	0.586	1.50
SQ5750-560MT	56.0	1.0M	0.725	1.45
SQ5750-680MT	68.0	1.0M	0.806	1.30
SQ5750-820MT	82.0	1.0M	0.990	1.15
SQ5750-101KT	100.0	1.0M	1.100	1.05
SQ5750-121KT	120.0	1.0M	1.388	0.97
SQ5750-151KT	150.0	1.0M	1.575	0.94
SQ5750-181KT	180.0	1.0M	2.000	0.84
SQ5750-221KT	220.0	1.0M	2.550	0.72
SQ5750-271KT	270.0	1.0M	2.825	0.67
SQ5750-331KT	330.0	1.0M	3.600	0.60
SQ5750-391KT	390.0	1.0M	4.000	0.55

Note:

Rated current: The DC current at which the inductance decreases to 90 % of its initial value or when $\Delta t = 40^{\circ}\text{C}$, whichever is lower ($T_a = 20^{\circ}\text{C}$)