

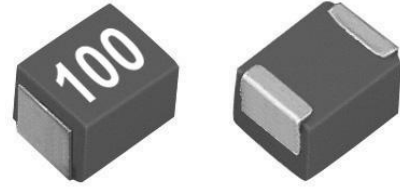


SMD SERIES

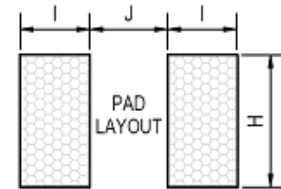
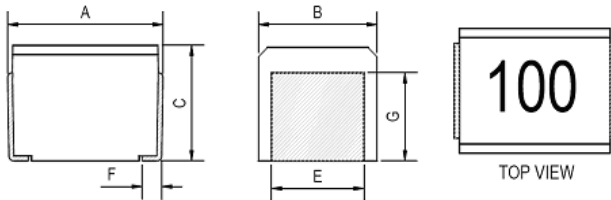
WIRE WOUND SMD CHIP INDUCTORS

Applications :

- DSC, DVC , PDA products.
- PCs.hard disk drives and computer peripherals.
- Telecommunications devices.
- TV circuits.
- Test equipment.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	E	F	G
SMD2520V(P)	2.5±0.2	2.0±0.2	1.8±0.2	1.4±0.1	0.4±0.1	1.4
SMD3225V(P)	3.2±0.2	2.5±0.2	2.2±0.2	1.9±0.1	0.5±0.1	1.6

Item	H	I	J
SMD2520V(P)	1.5	1.0	1.5
SMD3225V(P)	2.0	1.0	2.0

Features :

- Wire wound SMD inductors .
- Highly accurate dimensions and reliable performance.
- SMD2520V/ 3225V are high Q-characteristic achieved in the miniature winding construction.
- SMD2520VP / 3225VP / 3225VH are low Rdc higher current for the power supply line applications.
- Excellent heat durability that withstands lead-free compatible reflow soldering conditions.

Characteristics :

- Rated Current : It is either the inductance is 20% lower is than its initial value in DC saturation characteristics or temperature rise becomes $\Delta T=20^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$) whichever lower.
- Operating temperature : -40°C to 105°C (Including self-temperature rise).

Product identification :

SMD 3225 V P - 100 K

(1) (2) (3) (4) (5) (6)

(1) Type : **Surface Mount Devices**.

(2) Style : **L=3.2 mm W=2.5mm Ht=2.2mm**.

(3) "V" : **Vertical Structure**.

(4) "P" : For **Power Line**. "H": **High current**.

(5) Inductance : **100** for **10** uH.

(6) Inductance tolerance: **J:±5%; K:±10%; M:±20%**.

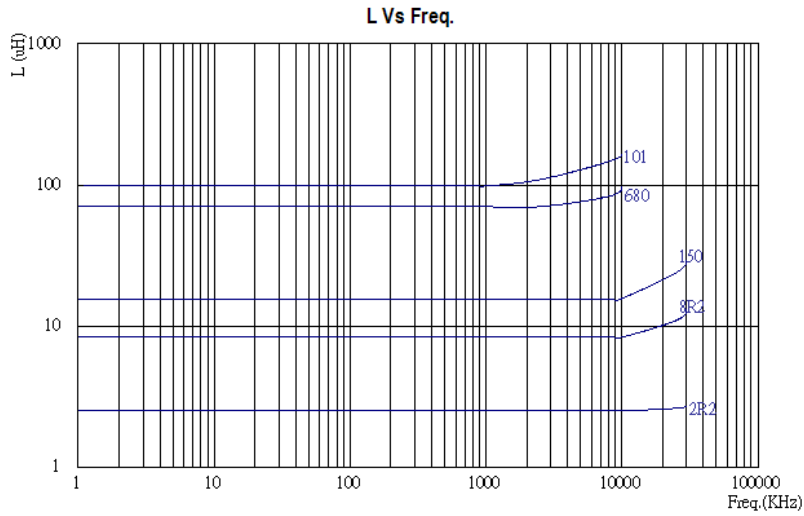
Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-Ωmeter or equivalent.
- Electrical specifications at 25°C .

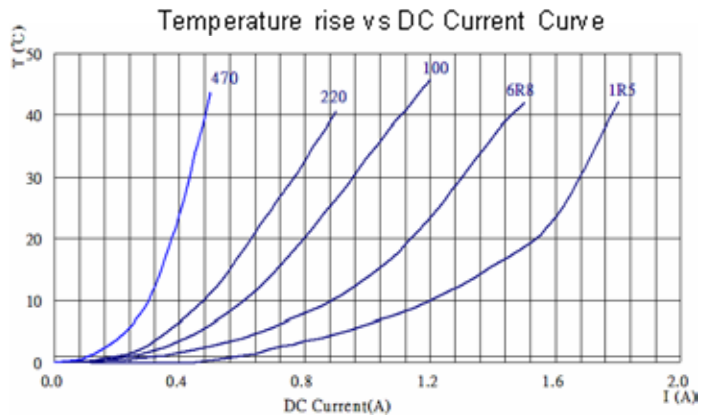
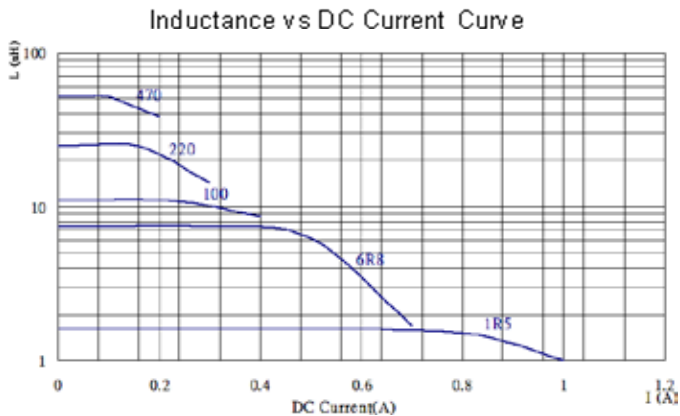


● **SMD 2520V series**

Part No.	Inductance		Q Min.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD2520V-R12□	0.12	M,K	30	25.2	500	0.22	550
SMD2520V-R15□	0.15	M,K	30	25.2	450	0.25	500
SMD2520V-R18□	0.18	M,K	30	25.2	400	0.29	460
SMD2520V-R22□	0.22	M,K	30	25.2	300	0.30	430
SMD2520V-R27□	0.27	M,K	30	25.2	280	0.33	420
SMD2520V-R33□	0.33	M,K	30	25.2	260	0.39	400
SMD2520V-R39□	0.39	M,K	30	25.2	240	0.40	375
SMD2520V-R47□	0.47	M,K	30	25.2	210	0.44	350
SMD2520V-R56□	0.56	M,K	30	25.2	190	0.49	325
SMD2520V-R68□	0.68	M,K	30	25.2	170	0.52	300
SMD2520V-R82□	0.82	M,K	30	25.2	150	0.61	260
SMD2520V-1R0□	1.0	M,K	30	7.96	150	0.75	245
SMD2520V-1R2□	1.2	M,K	30	7.96	130	0.87	230
SMD2520V-1R5□	1.5	M,K	30	7.96	120	1.00	220
SMD2520V-1R8□	1.8	M,K	30	7.96	110	1.10	210
SMD2520V-2R2□	2.2	M,K	30	7.96	105	1.30	200
SMD2520V-2R7□	2.7	M,K	30	7.96	70	1.40	195
SMD2520V-3R3□	3.3	M,K	30	7.96	55	1.60	185
SMD2520V-3R9□	3.9	K,J	30	7.96	48	1.70	180
SMD2520V-4R7□	4.7	K,J	30	7.96	43	1.90	175
SMD2520V-5R6□	5.6	K,J	30	7.96	42	2.20	170
SMD2520V-6R8□	6.8	K,J	30	7.96	39	2.40	165
SMD2520V-8R2□	8.2	K,J	30	7.96	36	2.60	160
SMD2520V-100□	10	K,J	25	2.52	33	2.20	155
SMD2520V-120□	12	K,J	25	2.52	30	2.50	150
SMD2520V-150□	15	K,J	25	2.52	26	2.80	140
SMD2520V-180□	18	K,J	25	2.52	22	3.20	130
SMD2520V-220□	22	K,J	25	2.52	21	3.60	125
SMD2520V-270□	27	K,J	25	2.52	19	4.30	115
SMD2520V-330□	33	K,J	25	2.52	17	4.70	110
SMD2520V-390□	39	K,J	25	2.52	15	8.10	85
SMD2520V-470□	47	K,J	25	2.52	14	8.80	80
SMD2520V-560□	56	K,J	25	2.52	13	10.0	75
SMD2520V-680□	68	K,J	25	2.52	12	11.5	70
SMD2520V-820□	82	K,J	25	2.52	11	12.5	65
SMD2520V-101□	100	K,J	15	0.796	10	13.0	60


Typical performance curves :

● SMD 2520VP series

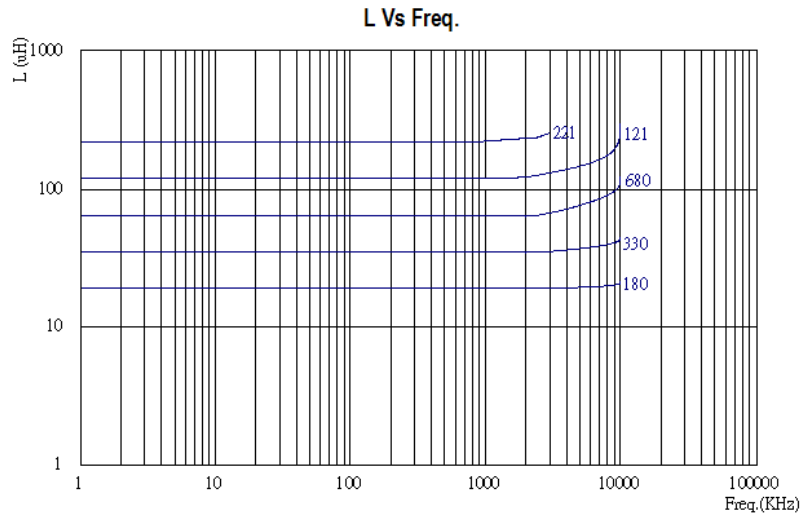
Part No.	Inductance		Q Ref.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD2520VP -1R0□	1.0	M,K	20	7.96	130	0.30	480
SMD2520VP -1R5□	1.5	M,K	20	7.96	95	0.38	435
SMD2520VP -2R2□	2.2	M,K	20	7.96	75	0.44	390
SMD2520VP -3R3□	3.3	M,K	20	7.96	60	0.57	340
SMD2520VP -4R7□	4.7	M,K	20	7.96	50	0.68	310
SMD2520VP -6R8□	6.8	K,J	20	7.96	40	0.89	295
SMD2520VP -100□	10	K,J	30	2.52	33	1.1	220
SMD2520VP -150□	15	K,J	30	2.52	28	1.7	180
SMD2520VP -220□	22	K,J	30	2.52	23	2.5	160
SMD2520VP -330□	33	K,J	30	2.52	18	3.8	130
SMD2520VP -470□	47	K,J	30	2.52	15	5.4	100

Typical performance curves :


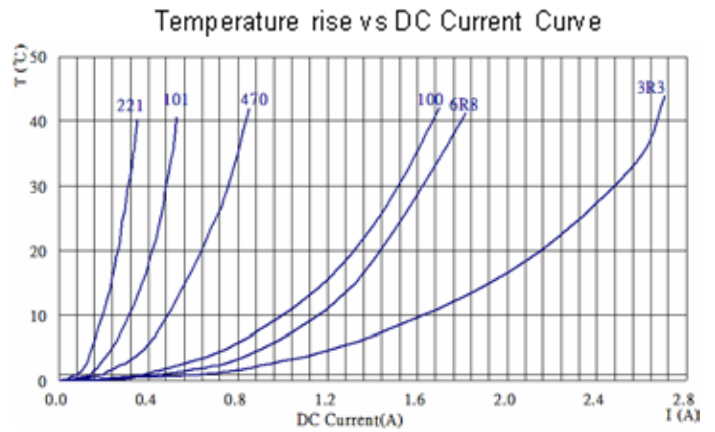
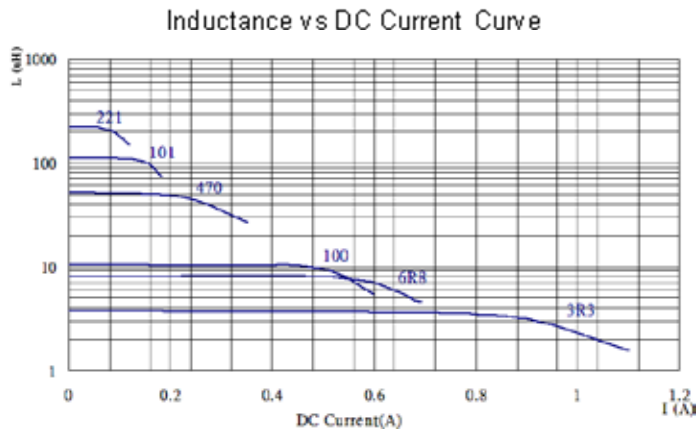


● **SMD 3225V series**

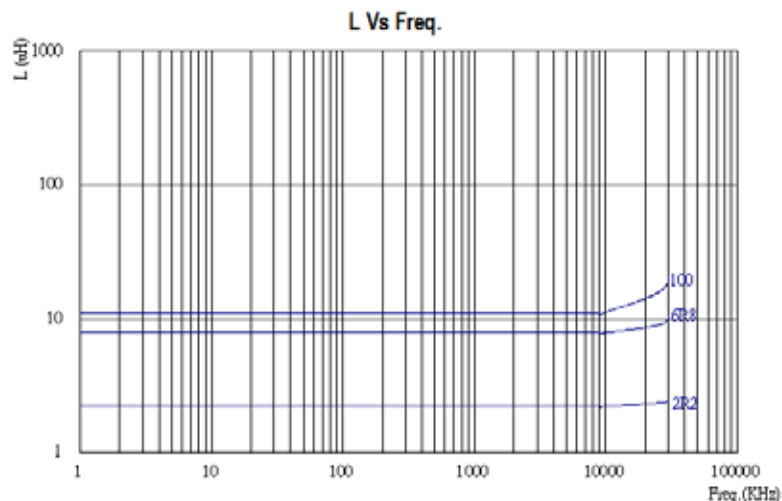
Part No.	Inductance		Q Min.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD3225V -R12□	0.12	M,K	30	25.2	500	0.22	450
SMD3225V -R15□	0.15	M,K	30	25.2	450	0.25	450
SMD3225V -R18□	0.18	M,K	30	25.2	400	0.28	450
SMD3225V -R22□	0.22	M,K	30	25.2	320	0.32	450
SMD3225V -R27□	0.27	M,K	30	25.2	320	0.36	450
SMD3225V -R33□	0.33	M,K	30	25.2	300	0.40	450
SMD3225V -R39□	0.39	M,K	30	25.2	180	0.45	450
SMD3225V -R47□	0.47	M,K	30	25.2	180	0.50	450
SMD3225V -R56□	0.56	M,K	30	25.2	180	0.55	450
SMD3225V -R68□	0.68	M,K	30	25.2	160	0.60	450
SMD3225V -R82□	0.82	M,K	30	25.2	140	0.65	450
SMD3225V -1R0□	1.0	M,K	30	7.96	120	0.70	400
SMD3225V -1R2□	1.2	M,K	30	7.96	100	0.75	390
SMD3225V -1R5□	1.5	M,K	30	7.96	85	0.85	370
SMD3225V -1R8□	1.8	M,K	30	7.96	80	0.90	350
SMD3225V -2R2□	2.2	K,J	30	7.96	75	1.0	320
SMD3225V -2R7□	2.7	K,J	30	7.96	70	1.1	290
SMD3225V -3R3□	3.3	K,J	30	7.96	60	1.2	260
SMD3225V -3R9□	3.9	K,J	30	7.96	55	1.3	250
SMD3225V -4R7□	4.7	K,J	30	7.96	50	1.5	220
SMD3225V -5R6□	5.6	K,J	30	7.96	45	1.6	200
SMD3225V -6R8□	6.8	K,J	30	7.96	40	1.8	180
SMD3225V -8R2□	8.2	K,J	30	7.96	35	2.0	170
SMD3225V -100□	10	K,J	30	2.52	30	2.1	150
SMD3225V -120□	12	K,J	30	2.52	20	2.5	140
SMD3225V -150□	15	K,J	30	2.52	20	2.8	130
SMD3225V -180□	18	K,J	30	2.52	20	3.3	120
SMD3225V -220□	22	K,J	30	2.52	20	3.7	110
SMD3225V -270□	27	K,J	30	2.52	20	5.0	80
SMD3225V -330□	33	K,J	30	2.52	17	5.6	70
SMD3225V -390□	39	K,J	30	2.52	16	6.4	65
SMD3225V -470□	47	K,J	30	2.52	15	7.0	60
SMD3225V -560□	56	K,J	30	2.52	13	8.0	55
SMD3225V -680□	68	K,J	30	2.52	12	9.0	50
SMD3225V -820□	82	K,J	30	2.52	11	10	45
SMD3225V -101□	100	K,J	20	0.796	10	10	40
SMD3225V -121□	120	K,J	20	0.796	10	11	70
SMD3225V -151□	150	K,J	20	0.796	8	15	65
SMD3225V -181□	180	K,J	20	0.796	7	17	60
SMD3225V -221□	220	K,J	20	0.796	7	21	50


Typical performance curves :

● SMD 3225VP series

Part No.	Inductance		Q Ref.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD3225VP -1R0□	1.0	M,K	10	7.96	100	0.10	1000
SMD3225VP -1R5□	1.5	M,K	10	7.96	80	0.14	830
SMD3225VP -2R2□	2.2	M,K	10	7.96	68	0.17	770
SMD3225VP -3R3□	3.3	M,K	10	7.96	54	0.21	690
SMD3225VP -4R7□	4.7	K,J	15	7.96	46	0.26	620
SMD3225VP -6R8□	6.8	K,J	15	7.96	38	0.35	530
SMD3225VP -100□	10	K,J	15	2.52	30	0.47	450
SMD3225VP -150□	15	K,J	15	2.52	26	0.73	370
SMD3225VP -220□	22	K,J	15	2.52	21	1.00	300
SMD3225VP -330□	33	K,J	15	2.52	17	1.43	240
SMD3225VP -470□	47	K,J	15	2.52	14	2.10	180
SMD3225VP -680□	68	K,J	15	2.52	12	3.60	140
SMD3225VP -101□	100	K,J	15	0.796	10	4.80	120
SMD3225VP -151□	150	K,J	20	0.796	8.0	7.90	100
SMD3225VP -221□	220	K,J	20	0.796	7.0	10.9	80
SMD3225VP -331□	330	K,J	20	0.796	6.0	16.0	70
SMD3225VP -471□	470	K,J	20	0.796	4.0	28.6	50
SMD3225VP -681□	680	K,J	20	0.796	3.0	36.4	40


Typical performance curves :

● SMD 3225VH series

Part No.	Inductance		Q Ref.	Test Freq. MHz	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
	(uH)	Tolerance					
SMD3225VH -R15□	0.15	M	10	25.2	400	0.029	2600
SMD3225VH -R22□	0.22	M	10	25.2	350	0.033	2400
SMD3225VH -R27□	0.27	M	10	25.2	300	0.033	2200
SMD3225VH -R33□	0.33	M	10	25.2	250	0.042	2100
SMD3225VH -R47□	0.47	M	10	25.2	200	0.045	2000
SMD3225VH -R68□	0.68	M	10	25.2	150	0.054	1900
SMD3225VH -1R0□	1.0	M	15	7.96	100	0.066	1700
SMD3225VH -1R5□	1.5	M	15	7.96	80	0.114	1400
SMD3225VH 2R2□	2.2	M	15	7.96	68	0.138	1200
SMD3225VH -3R3□	3.3	M	15	7.96	54	0.192	1000
SMD3225VH -4R7□	4.7	M	15	7.96	46	0.24	900
SMD3225VH -6R8□	6.8	M	15	7.96	38	0.348	700
SMD3225VH -100□	10	K	15	2.52	30	0.504	600

Typical performance curves :


* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.