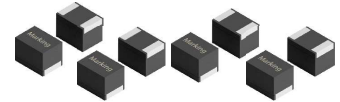


FERRITE CHIP INDUCTOR – EWL5650V SERIES



●FEATURE

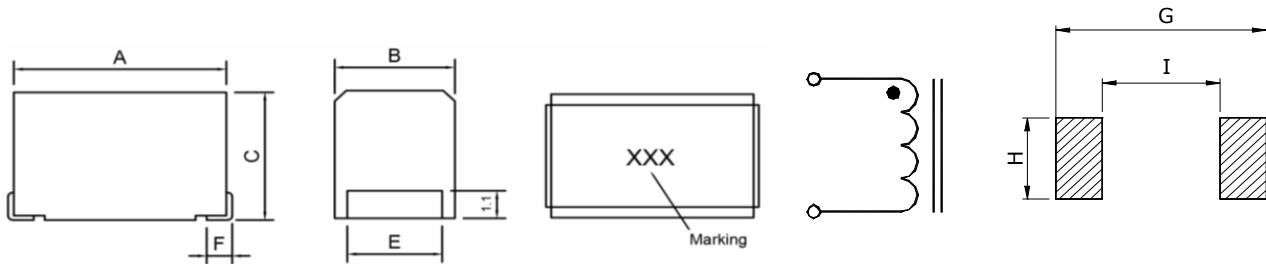
1. Wire wound SMD inductors
2. Highly accurate dimensions and reliable

●Applications

1. Digital camera or small size LCD panel used
2. Hard Disk drives, and other electronic equipment

●Shape and Dimension

●Schematics and Land Patterns(mm)



TYPE	A	B	C	E	F	G	I	H
EWL5650V(2220)	5.60±0.30	5.00±0.30	4.00±0.30	4.00±0.10	0.70±0.10	8.00	4.00	4.50

●Specification

Note1. Measurement frequency of Inductance value : at electrical characteristics

Note2. Measurement ambient temperature of L, DCR and IDC : at 25°C

Note3. IDC : This indicates the value of current when the inductances is 10% lower than its initial value at D.C. superimposition or D.C. current when at $\Delta t=30^{\circ}\text{C}$, which is lower. ($T_a=20^{\circ}\text{C}$)

Note4. Inductance tolerance: J: $\pm 5\%$; K: $\pm 10\%$; M: $\pm 20\%$ (M,K:1.0uH~18uH ; K,J:22uH~10000uH)

Note5. Ordering Code: TYPE NAME: EWL5650V

Main Inductance: 100 (10uH)

Tolerance : ☐ (see note 4).

Note6. Packaging: Taping ; Quantity: 1000 Pieces/reel

FERRITE CHIP INDUCTOR

– EWL5650V SERIES

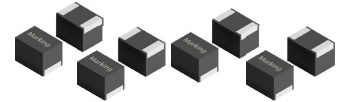


P/N	L (μ H)	TEST FREQ. (MHz)	Q Min	SRF (MHz) Min	RDC (Ω)Max	IDC (mA)Max
EWL5650V-1R0□	1.0	7.96	10	95	0.030	1800
EWL5650V-1R2□	1.2	7.96	10	70	0.035	1700
EWL5650V-1R5□	1.5	7.96	10	55	0.04	1600
EWL5650V-1R8□	1.8	7.96	10	47	0.05	1400
EWL5650V-2R2□	2.2	7.96	10	42	0.06	1300
EWL5650V-2R7□	2.7	7.96	10	37	0.07	1200
EWL5650V-3R3□	3.3	7.96	10	34	0.08	1120
EWL5650V-3R9□	3.9	7.96	10	32	0.09	1050
EWL5650V-4R7□	4.7	7.96	10	29	0.11	950
EWL5650V-5R6□	5.6	7.96	10	26	0.13	880
EWL5650V-6R8□	6.8	7.96	10	24	0.15	810
EWL5650V-8R2□	8.2	7.96	10	22	0.18	750
EWL5650V-100□	10	2.52	10	19	0.21	690
EWL5650V-120□	12	2.52	10	17	0.25	630
EWL5650V-150□	15	2.52	10	16	0.30	580
EWL5650V-180□	18	2.52	10	14	0.36	530
EWL5650V-220□	22	2.52	10	13	0.43	480
EWL5650V-270□	27	2.52	10	11.5	0.52	440
EWL5650V-330□	33	2.52	10	10.5	0.62	400
EWL5650V-390□	39	2.52	10	9.5	0.72	370
EWL5650V-470□	47	2.52	10	8.5	0.85	340
EWL5650V-560□	56	2.52	10	7.8	1.00	310
EWL5650V-680□	68	2.52	10	7.0	1.20	290
EWL5650V-820□	82	2.52	10	6.4	1.40	270
EWL5650V-101□	100	0.796	20	6.0	1.60	250
EWL5650V-121□	120	0.796	20	5.4	1.90	230
EWL5650V-151□	150	0.796	20	4.8	2.20	210
EWL5650V-181□	180	0.796	20	4.4	2.80	190
EWL5650V-221□	220	0.796	20	3.9	3.40	170
EWL5650V-271□	270	0.796	20	3.6	4.20	155
EWL5650V-331□	330	0.796	20	3.2	4.90	140
EWL5650V-391□	390	0.796	20	2.9	5.80	130
EWL5650V-471□	470	0.796	20	2.6	7.00	120
EWL5650V-561□	560	0.796	20	2.4	8.50	110
EWL5650V-681□	680	0.796	20	2.2	10	100

FERRITE CHIP INDUCTOR – EWL5650V SERIES

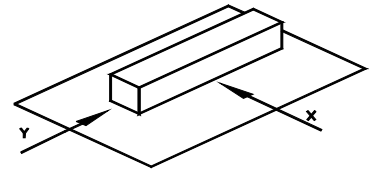


P/N	L (μ H)	TEST FREQ. (MHz)	Q Min	SRF (MHz) Min	RDC (Ω)Max	IDC (mA)Max
EWL5650V-821□	820	0.796	20	2.0	13	90
EWL5650V-102□	1000	0.252	20	1.8	15	85
EWL5650V-122□	1200	0.252	20	1.5	17	75
EWL5650V-152□	1500	0.252	20	1.4	20	70
EWL5650V-182□	1800	0.252	20	1.3	30	60
EWL5650V-222□	2200	0.252	20	1.2	35	55
EWL5650V-272□	2700	0.252	20	1.1	55	45
EWL5650V-332□	3300	0.252	20	1.0	60	40
EWL5650V-392□	3900	0.252	20	1.0	70	38
EWL5650V-472□	4700	0.252	20	0.9	78	36
EWL5650V-562□	5600	0.252	20	0.8	85	33
EWL5650V-682□	6800	0.252	20	0.7	110	30
EWL5650V-822□	8200	0.252	20	0.6	125	28
EWL5650V-103□	10000	0.0796	15	0.5	150	25

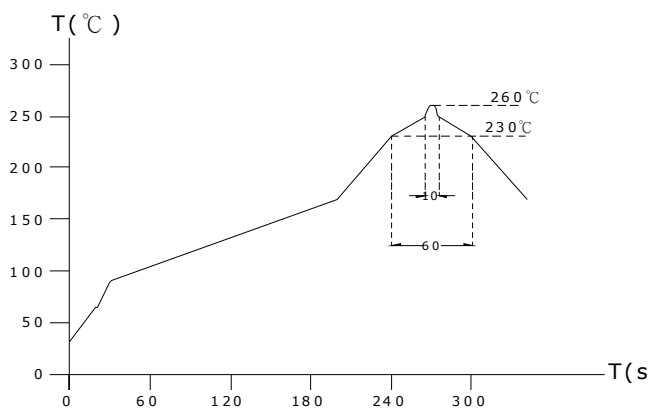


GENERAL CHARACTERISTICS

1. Operating temperature range: -40 TO $+125^{\circ}\text{C}$ (Includes temperature when the coil is heated)
2. External appearance: On visual inspection, the coil has no external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y withstanding at below conditions.
Terminal should not peel off. (refer to figure at right) 0.5kg.
4. Insulating resistance: Over $100\text{M}\Omega$ at 100V D.C. between coil and core.
5. Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core.
6. Temperature characteristics: Inductance coefficient $(0\sim 2,000)\times 10^{-6}/^{\circ}\text{C}$ ($-25\sim +80^{\circ}\text{C}$ degree Celsius), inductance deviation within $\pm 5.0\%$, after 96 hours.
7. Humidity characteristics(Moisture Resistance): Inductance deviation within $\pm 5\%$, after 96 hours in $90\sim 95\%$ relative humidity at $40 \pm 2^{\circ}\text{C}$ and 1 hour drying under normal condition.
8. Vibration resistance: Inductance deviation within $\pm 5\%$, after vibration for 1 hour. In each of three orientations at sweep vibration ($10\sim 55\sim 10\text{ Hz}$) with 1.5mm P-P amplitudes.
9. Shock resistance: Inductance deviation within $\pm 5\%$, after being dropped once with 981m/s^2 (100G) shock attitude upon a rubber block method shock testing machine, in three different orientations.
10. Resistance to Soldering Heat: 260°C , 10 seconds(See attached recommend reflow)
11. Storage condition: Temperature Range: $0^{\circ}\text{C} \sim 35^{\circ}\text{C}$; $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ (after PCB) , Humidity Range: $50\% \sim 70\% \text{ RH}$
12. Use components within 12 months. If 12 months or more have elapsed, check solderability before use.
13. Reflow profile recommend:



Lead-free heat endurance test



Lead-free the recommended reflow condition

