

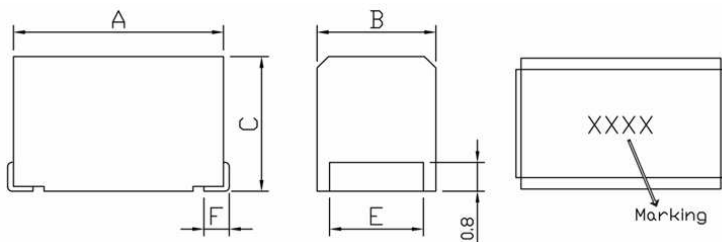
● FEATURE

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

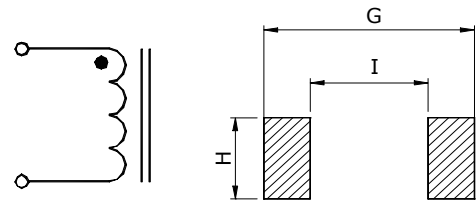
● Applications

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)



● Specification

Dimension in m/m

TYPE	A	B	C	E	F	G	I	H
EWL4532V(1812)	4.50±0.30	3.20±0.20	3.20±0.20	2.60±0.10	0.60	5.00	3.00	2.80

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 $\Delta t=20^{\circ}\text{C}$, which is lower. ($T_a=20^{\circ}\text{C}$)

Note4. Inductance tolerance: J: $\pm 5\%$; K: $\pm 10\%$; M: $\pm 20\%$

Note5. Ordering Code: TYPE NAME: EWL4532V

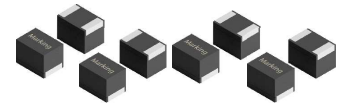
Inductance Value: 100(10uH)

Tolerance Code: (see Note4)

Note6. This specification might be changed without notice due to under developing and improving.

Thank you for your understanding.

FERRITE CHIP INDUCTOR – EWL4532V SERIES



P/N	L (μ H)	TEST FREQ. (MHz)	Q Min	SRF (MHz) Min	RDC (Ω)Max	IDC (mA)Max
EWL4532V-R10□	0.10	25.2	35	300	0.18	800
EWL4532V-R12□	0.12	25.2	35	280	0.20	770
EWL4532V-R15□	0.15	25.2	35	250	0.22	730
EWL4532V-R18□	0.18	25.2	35	220	0.24	700
EWL4532V-R22□	0.22	25.2	40	200	0.25	665
EWL4532V-R27□	0.27	25.2	40	180	0.26	635
EWL4532V-R33□	0.33	25.2	40	165	0.28	605
EWL4532V-R39□	0.39	25.2	40	150	0.30	575
EWL4532V-R47□	0.47	25.2	40	145	0.32	545
EWL4532V-R56□	0.56	25.2	40	140	0.36	520
EWL4532V-R68□	0.68	25.2	40	135	0.40	500
EWL4532V-R82□	0.82	25.2	40	130	0.45	475
EWL4532V-1R0□	1.0	7.96	50	100	0.50	450
EWL4532V-1R2□	1.2	7.96	50	80	0.55	430
EWL4532V-1R5□	1.5	7.96	50	70	0.60	410
EWL4532V-1R8□	1.8	7.96	50	60	0.65	390
EWL4532V-2R2□	2.2	7.96	50	55	0.70	380
EWL4532V-2R7□	2.7	7.96	50	50	0.75	370
EWL4532V-3R3□	3.3	7.96	50	45	0.80	355
EWL4532V-3R9□	3.9	7.96	50	40	0.90	330
EWL4532V-4R7□	4.7	7.96	50	35	1.00	315
EWL4532V-5R6□	5.6	7.96	50	33	1.10	300
EWL4532V-6R8□	6.8	7.96	50	27	1.20	285
EWL4532V-8R2□	8.2	7.96	50	25	1.40	270
EWL4532V-100□	10	2.52	50	20	1.60	250
EWL4532V-120□	12	2.52	50	18	2.00	225
EWL4532V-150□	15	2.52	50	17	2.50	200
EWL4532V-180□	18	2.52	50	15	2.80	190
EWL4532V-220□	22	2.52	50	13	3.20	180
EWL4532V-270□	27	2.52	50	12	3.60	170
EWL4532V-330□	33	2.52	50	11	4.00	160
EWL4532V-390□	39	2.52	50	10	4.50	150
EWL4532V-470□	47	2.52	50	10	5.00	140
EWL4532V-560□	56	2.52	50	9	5.50	135
EWL4532V-680□	68	2.52	50	9	6.00	130

**FERRITE CHIP INDUCTOR
– EWL4532V SERIES**

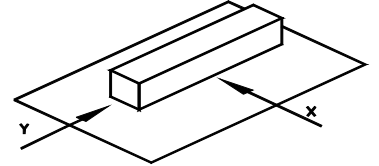
P/N	L (μ H)	TEST FREQ. (MHz)	Q Min	SRF (MHz) Min	RDC (Ω)Max	IDC (mA)Max
EWL4532V-82□	82	2.52	50	8	7.00	120
EWL4532V-101□	100	0.796	40	8	8.00	110
EWL4532V-121□	120	0.796	40	6	8.00	110
EWL4532V-151□	150	0.796	40	5	9.00	105
EWL4532V-181□	180	0.796	40	5	9.50	105
EWL4532V-221□	220	0.796	40	4	10.0	100
EWL4532V-271□	270	0.796	40	4	12.0	92
EWL4532V-331□	330	0.796	40	3.5	14.0	85
EWL4532V-391□	390	0.796	40	3.0	18.0	80
EWL4532V-471□	470	0.796	40	3.0	26.0	62
EWL4532V-561□	560	0.796	40	3.0	30.0	50
EWL4532V-681□	680	0.796	40	3.0	30.0	50
EWL4532V-821□	820	0.796	40	2.5	35.0	30
EWL4532V-102□	1000	0.252	20	2.5	40.0	30



GENERAL CHARACTERISTICS

1. Operating temperature range: -40 TO + 125°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) 5. 0N 60 sec.



4. Insulating resistance: Over 100MΩ 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 90~95% 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 (10~55~10 Hz) with 1.5mm P-P amplitudes.
9. Shock resistance: Inductance deviation within $\pm 5\%$, after being dropped once with 981m/s² (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°C ~ 35°C ; -40°C ~ 105°C (after PCB) · Humidity Range: 50% ~ 70% 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

