



Wire Wound Chip Ferrite Inductor (SDWL-FD Series)

• Dimension

SDWL-FD

Type	A	B	C	D
SDWL2520 [1008]	2.5±0.2 [.098±.008]	2.0±0.2 [.079±.008]	1.8±0.2 [.071±.008]	1.4±0.1 [.055±.004]
SDWL3225 [1210]	3.2±0.2 [.126±.008]	2.5±0.2 [.098±.008]	2.2±0.2 [.087±.008]	1.4±0.1 [.055±.004]
SDWL4532 [1812]	4.5±0. [.178±.012]	3.2±0.2 [.126±.008]	3.2±0.2 [.126±.008]	1.2±0.3 [.049±.012]

Unit: mm [inch]

• Features

- High inductance with ferrite material
- Small chip suitable for surface mounting
- Tight inductance tolerance and stable inductance at high frequency
- Coils are encapsulated in heat-proof resin providing resistance to mechanical shock and pressure
- Low DC resistance and high current, ideal for power supply lines
- Operating temperature:
SDWL-C Series: -40°C to +105°C

• Applications

- Audiovisual equipment
- Computer equipment i.e. hard disk
- Compact-sized electronic equipment

• Part Number Identification

SDWL **2520** **FD** **1R0** **J** **I** **F**
 (1) (2) (3) (4) (5) (6) (7)

(1)

Product ID	
SDWL-FD	Wire wound chip ferrite inductor

(2)

Dimensions	
2520	[1008]
3225	[1210]
4532	[1812]

(3)

Material

(4)

Nominal Inductance	
Example	Nominal Value
R12	120nH
1R0	1.0μH
101	100μH

(5)

Tolerance of Inductance	
K	±10%
M	±20%

(6)

Packing Type	
B	Bulk packing
T	Tape & reel packing

(7)

Hazardous Substance Free Products



● SDWL2520FD Series

Part Number	Inductance	Quality Factor (min.)	Test Frequency	DC Resistance (max.)	Rated Current (max.)	Self-resonant Frequency (min.)
Unit	μH	-	MHz	Ω	mA	MHz
Symbol	L	Q	Freq.	DCR	I _r	S.R.F
SDWL2520FD1R0M	1.0±20%	20	7.96	0.34	475	200
SDWL2520FD1R5M	1.5±20%	20	7.96	0.42	435	165
SDWL2520FD2R2M	2.2±20%	20	7.96	0.5	390	95
SDWL2520FD3R3M	3.3±20%	20	7.96	0.65	340	55
SDWL2520FD4R7M	4.7±20%	20	7.96	0.8	285	43
SDWL2520FD6R8M	6.8±20%	20	7.96	1	275	39
SDWL2520FD100K	10±20%	30	2.52	1.69	210	32
SDWL2520FD150K	15±20%	30	2.52	2.2	175	21
SDWL2520FD220K	22±20%	30	2.52	2.8	160	18
SDWL2520FD330K	33±20%	30	2.52	4.2	120	16

● SDWL3225FD Series

Part Number	Inductance	Quality Factor (min.)	Test Frequency	DC Resistance (max.)	Rated Current (max.)	Self-resonant Frequency (min.)
Unit	μH	-	MHz	Ω	mA	MHz
Symbol	L	Q	Freq.	DCR	I _r	S.R.F
SDWL3225FD1R0M	1.0±20%	10	7.96	0.06	1000	100
SDWL3225FD1R5M	1.5±20%	10	7.96	0.11	830	80
SDWL3225FD2R2M	2.2±20%	10	7.96	0.13	770	68
SDWL3225FD3R3M	3.3±20%	10	7.96	0.16	690	54
SDWL3225FD4R7M	4.7±20%	15	7.96	0.2	620	46
SDWL3225FD6R8M	6.8±20%	15	7.96	0.27	530	38
SDWL3225FD100K	10±10%	15	2.52	0.36	450	30
SDWL3225FD150K	15±10%	15	2.52	0.56	370	26
SDWL3225FD220K	22±10%	15	2.52	0.77	300	21
SDWL3225FD330K	33±10%	15	2.52	1.1	240	17
SDWL3225FD470K	47±10%	15	2.52	1.64	180	14
SDWL3225FD680K	68±10%	15	2.52	2.8	140	12
SDWL3225FD101K	100±10%	15	0.796	3.7	120	10
SDWL3225FD151K	150±10%	20	0.796	6.1	100	8
SDWL3225FD221K	220±10%	20	0.796	8.4	80	7
SDWL3225FD331K	330±10%	20	0.796	12.3	70	6



● SDWL3225FD Series

Part Number	Inductance	Quality Factor (min.)	Test Frequency	DC Resistance (max.)	Rated Current (max.)	Self-resonant Frequency (min.)
Unit	μH	-	MHz	Ω	mA	MHz
Symbol	L	Q	Freq.	DCR	I _r	S.R.F
SDWL4532FD1R0K	1.0±10%	10	7.96	0.11	1050	200
SDWL4532FD1R2K	1.2±10%	10	7.96	0.12	1000	160
SDWL4532FD1R5K	1.5±10%	10	7.96	0.15	950	130
SDWL4532FD1R8K	1.8±10%	10	7.96	0.16	900	100
SDWL4532FD2R2K	2.2±10%	10	7.96	0.18	850	80
SDWL4532FD2R7K	2.7±10%	10	7.96	0.2	800	60
SDWL4532FD3R3K	3.3±10%	10	7.96	0.22	750	45
SDWL4532FD3R9K	3.9±10%	10	7.96	0.24	700	40
SDWL4532FD4R7K	4.7±10%	10	7.96	0.27	650	35
SDWL4532FD5R6K	5.6±10%	10	7.96	0.3	650	30
SDWL4532FD6R8K	6.8±10%	10	7.96	0.35	600	28
SDWL4532FD8R2K	8.2±10%	10	7.96	0.4	600	25
SDWL4532FD100K	10±10%	10	2.52	0.5	550	22
SDWL4532FD120K	12±10%	10	2.52	0.6	500	21
SDWL4532FD150K	15±10%	10	2.52	0.7	450	20
SDWL4532FD180K	18±10%	10	2.52	0.8	400	19
SDWL4532FD220K	22±10%	10	2.52	0.9	370	18
SDWL4532FD270K	27±10%	10	2.52	1.2	330	16
SDWL4532FD330K	33±10%	10	2.52	1.4	300	14
SDWL4532FD390K	39±10%	10	2.52	1.6	280	12
SDWL4532FD470K	47±10%	10	2.52	1.9	260	11.5
SDWL4532FD560K	56±10%	10	2.52	2.2	240	11
SDWL4532FD680K	68±10%	10	2.52	2.6	220	10
SDWL4532FD820K	82±10%	10	2.52	3.5	200	9
SDWL4532FD101K	100±10%	20	0.796	4.0	180	8
SDWL4532FD121K	120±10%	20	0.796	4.5	160	7.5
SDWL4532FD151K	150±10%	20	0.796	6.5	140	7
SDWL4532FD181K	180±10%	20	0.796	7.5	120	6.5
SDWL4532FD221K	220±10%	20	0.796	9.0	120	5.5
SDWL4532FD271K	270±10%	20	0.796	11.0	100	5
SDWL4532FD331K	330±10%	20	0.796	13.0	90	4
SDWL4532FD391K	390±10%	20	0.796	14.0	85	3
SDWL4532FD471K	470±10%	20	0.796	16.0	75	3
SDWL4532FD561K	560±10%	20	0.796	18.0	70	3
SDWL4532FD681K	680±10%	20	0.796	22.0	65	2.5