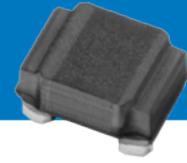


Wire Wound Chip Ferrite Inductor – SDWL – FW Series



Operating temp. : -40°C ~+85°C

- FEATURES**
- ◆ Small chip suitable for surface mounting
 - ◆ High inductance with ferrite material

- APPLICATIONS**
- ◆ Liquid crystal television and other electronic devices

PRODUCT IDENTIFICATION

1	2	3	4	5	6	7	8
SDWL	2012	FW	R27	J	S	T	F

1 Type	
SDWL	Wire Wound Chip Inductor

2 External Dimensions	
2012 [0805]	2.29×1.73
2520 [1008]	2.92×2.79
3216 [1206]	3.56×2.16
3225 [1210]	3.65×2.95

3 Material Code	
FW	铁氧体 Ferrite

4 Nominal Inductance	
Example	Nominal Value
R27	270nH
2R7	2.7μH
100	10μH

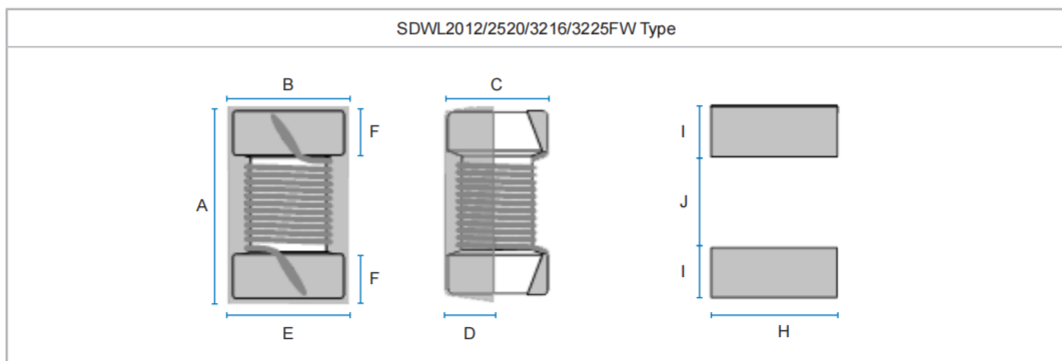
5 Inductance Tolerance	
J	±5%
K	±10%
M	±20%

6 Feature Type	
S	Sn Plating Five-faces Coating

7 Packing	
T	Tape & Reel

8 Hazardous Substance Free Products	
F	

SHAPE AND DIMENSIONS



Series	A Max.	B Max.	C Max.	D Ref.	E	F	H Ref.	I Ref.	J Ref.
SDWL2012FW	2.29	1.73	1.55	0.51	1.27±0.2	0.51±0.2	1.78	1.02	0.76
SDWL2520FW	2.92	2.79	2.29	0.51	2.10±0.2	0.50±0.2	2.54	1.02	1.27
SDWL3216FW	3.56	2.16	1.52	0.51	1.60±0.2	0.50±0.2	1.93	1.02	1.78
SDWL3225FW	3.65	2.95	2.70	0.51	2.40±0.2	0.50±0.2	3.02	1.02	1.78

Unit: mm

Multilayer Chip Ferrite Inductor
 Multilayer Chip Inductor for Choke
 Multilayer Chip Power Inductor
 Multilayer Ultra High Q Chip Ceramic Inductor
 Multilayer High Q Chip Ceramic Inductor
 Multilayer Chip Ceramic Inductor
 Multilayer High Frequency Chip Ceramic Inductor
 Wire Wound Chip Ceramic Inductor
 Wire Wound Chip Ferrite Inductor
 SMD Power Inductor

SPECIFICATIONS SDWL2012FW TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
Units	μH	-	-	MHz	MHz	Ω	mA
Symbol	L	-	Q	Freq.	S.R.F	DCR	I _r
SDWL2012FWR27 □ STF	0.27	J,K,M	15	25	550	0.91	350
SDWL2012FWR47 □ STF	0.47	J,K,M	8	100	500	0.72	300
SDWL2012FWR56 □ STF	0.56	J,K,M	15	25	360	0.60	145
SDWL2012FW1R0 □ STF	1.0	J,K,M	15	7.9	63	1.20	245
SDWL2012FW1R5 □ STF	1.5	J,K,M	15	7.9	60	1.45	225
SDWL2012FW1R8 □ STF	1.8	J,K,M	15	7.9	60	1.45	200
SDWL2012FW2R2 □ STF	2.2	J,K,M	10	7.9/50	200	2.50	100
SDWL2012FW3R3 □ STF	3.3	J,K,M	15	7.9	50	2.30	175
SDWL2012FW3R9 □ STF	3.9	J,K,M	10	7.9	50	2.50	80
SDWL2012FW4R7 □ STF	4.7	J,K,M	15	7.9	43	2.80	140
SDWL2012FW6R8 □ STF	6.8	J,K,M	15	7.9	36	3.40	115
SDWL2012FW8R2 □ STF	8.2	J,K,M	10	7.9/2.5	35	4.50	100
SDWL2012FW100 □ STF	10	J,K,M	10	2.5	30	4.70	98
SDWL2012FW150 □ STF	15	J,K,M	10	2.5	23	6.50	80
SDWL2012FW220 □ STF	22	J,K,M	10	2.5	20	8.00	68
SDWL2012FW330 □ STF	33	J,K,M	10	2.5	17	10.70	60
SDWL2012FW470 □ STF	47	J,K,M	10	2.5	14	13.80	55
SDWL2012FW680 □ STF	68	J,K,M	8	2.5	11	17.50	40

SDWL2520FW TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
Units	μH	-	-	MHz	MHz	Ω	mA
Symbol	L	-	Q	Freq.	S.R.F	DCR	I _r
SDWL2520FWR33 □ STF	0.33	J,K,M	50	25/100	600	0.17	700
SDWL2520FW1R0 □ STF	1.0	J,K,M	20	7.9/50	250	0.80	600
SDWL2520FW1R2 □ STF	1.2	J,K,M	37	7.9/50	250	0.80	650
SDWL2520FW1R5 □ STF	1.5	J,K,M	35	7.9/50	190	0.76	630
SDWL2520FW1R8 □ STF	1.8	J,K,M	33	7.9/50	170	0.84	600
SDWL2520FW2R2 □ STF	2.2	J,K,M	30	7.9/50	150	1.15	520
SDWL2520FW2R7 □ STF	2.7	J,K,M	25	7.9/50	120	1.30	490
SDWL2520FW3R3 □ STF	3.3	J,K,M	23	7.9/50	100	1.70	450
SDWL2520FW3R9 □ STF	3.9	J,K,M	26	7.9/25	100	2.00	420
SDWL2520FW4R7 □ STF	4.7	J,K,M	31	7.9	60	1.68	400
SDWL2520FW5R6 □ STF	5.6	J,K,M	23	7.9	80	2.65	380
SDWL2520FW6R8 □ STF	6.8	J,K,M	20	7.9	60	3.00	360
SDWL2520FW8R2 □ STF	8.2	J,K,M	20	7.9	40	3.30	330
SDWL2520FW100 □ STF	10	J,K,M	15	7.9	40	2.95	300

SDWL3216FW TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
Units	μH	-	-	MHz	MHz	Ω	mA
Symbol	L	-	Q	Freq.	S.R.F	DCR	I _r
SDWL3216FW1R5 □ STF	1.5	J, K, M	25	7.9	260	1.20	320
SDWL3216FW1R8 □ STF	1.8	J, K, M	25	7.9	250	1.20	320
SDWL3216FW2R2 □ STF	2.2	J, K, M	25	7.9	240	1.30	300
SDWL3216FW2R7 □ STF	2.7	J, K, M	25	7.9	230	1.40	300
SDWL3216FW3R3 □ STF	3.3	J, K, M	25	7.9	200	1.50	280
SDWL3216FW3R9 □ STF	3.9	J, K, M	25	7.9	190	1.90	280

SPECIFICATIONS SDWL3216FW TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
Units	μH	-	-	MHz	MHz	Ω	mA
Symbol	L	-	Q	Freq.	S.R.F	DCR	Ir
SDWL3216FW4R7 □ STF	4.7	J, K, M	25	7.9	170	2.20	280
SDWL3216FW5R6 □ STF	5.6	J, K, M	25	7.9	160	2.40	260
SDWL3216FW6R8 □ STF	6.8	J, K, M	25	7.9	150	2.80	240
SDWL3216FW8R2 □ STF	8.2	J, K, M	25	7.9	130	3.10	220
SDWL3216FW100 □ STF	10.0	J, K, M	25	7.9	120	4.00	200
SDWL3216FW120 □ STF	12.0	J, K, M	18	2.5	110	4.60	200
SDWL3216FW150 □ STF	15.0	J, K, M	16	2.5	90	8.20	160
SDWL3216FW180 □ STF	18.0	J, K, M	16	2.5	80	9.00	130

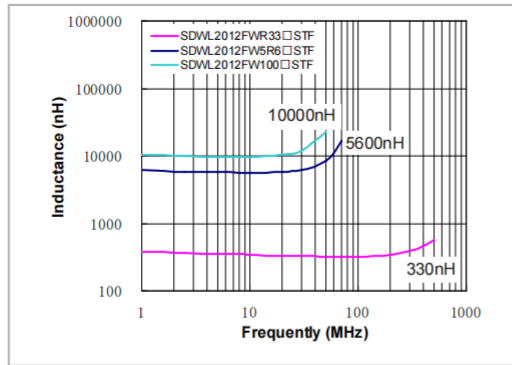
SDWL3225FW TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
Units	μH	-	-	MHz	MHz	Ω	mA
Symbol	L	-	Q	Freq.	S.R.F	DCR	Ir
SDWL3225FWR12 □ STF	0.12	J, K, M	30	25	500	0.22	450
SDWL3225FWR15 □ STF	0.15	J, K, M	30	25	450	0.40	450
SDWL3225FWR18 □ STF	0.18	J, K, M	30	25	400	0.28	450
SDWL3225FWR22 □ STF	0.22	J, K, M	30	25	350	0.32	450
SDWL3225FWR27 □ STF	0.27	J, K, M	30	25	320	0.36	450
SDWL3225FWR33 □ STF	0.33	J, K, M	30	25	300	0.40	450
SDWL3225FWR39 □ STF	0.39	J, K, M	30	25	250	0.45	450
SDWL3225FWR47 □ STF	0.47	J, K, M	30	25	220	0.50	450
SDWL3225FWR56 □ STF	0.56	J, K, M	30	25	180	0.55	450
SDWL3225FWR68 □ STF	0.68	J, K, M	30	25	160	0.60	450
SDWL3225FWR82 □ STF	0.82	J, K, M	30	25	140	0.65	450
SDWL3225FW1R0 □ STF	1.0	J, K, M	30	7.9	120	0.70	400
SDWL3225FW1R2 □ STF	1.2	J, K, M	30	7.9	100	0.75	390
SDWL3225FW1R5 □ STF	1.5	J, K, M	30	7.9	85	0.85	370
SDWL3225FW1R8 □ STF	1.8	J, K, M	30	7.9	80	0.90	350
SDWL3225FW2R2 □ STF	2.2	J, K, M	30	7.9	75	1.00	320
SDWL3225FW2R7 □ STF	2.7	J, K, M	30	7.9	70	1.10	290
SDWL3225FW3R3 □ STF	3.3	J, K, M	30	7.9	60	1.20	260
SDWL3225FW3R9 □ STF	3.9	J, K, M	30	7.9	55	1.30	250
SDWL3225FW4R7 □ STF	4.7	J, K, M	30	7.9	50	1.50	224
SDWL3225FW5R6 □ STF	5.6	J, K, M	30	7.9	45	1.60	204
SDWL3225FW6R8 □ STF	6.8	J, K, M	30	7.9	40	1.80	180
SDWL3225FW8R2 □ STF	8.2	J, K, M	30	7.9	35	2.00	170
SDWL3225FW100 □ STF	10	J, K, M	25	7.9	30	2.10	150
SDWL3225FW120 □ STF	12	J, K, M	25	7.9	20	2.50	140

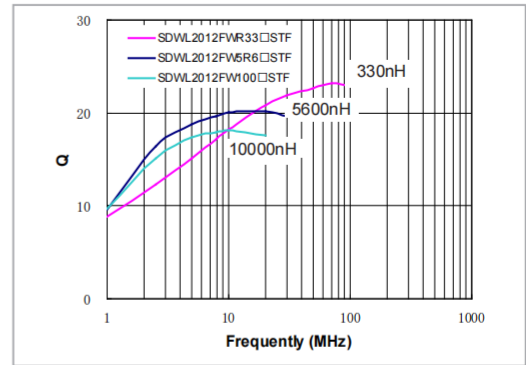
TYPICAL ELECTRICAL CHARACTERISTICS

SDWL2012FW TYPE

Inductance vs. Frequency Characteristics

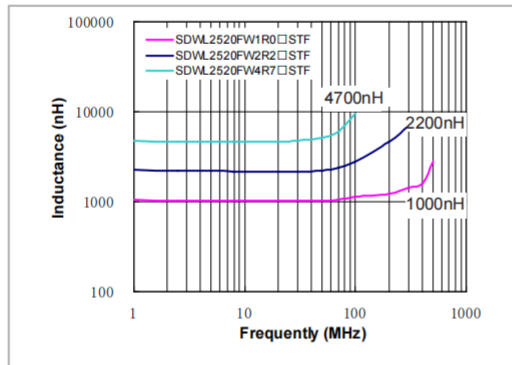


Q vs. Frequency Characteristics

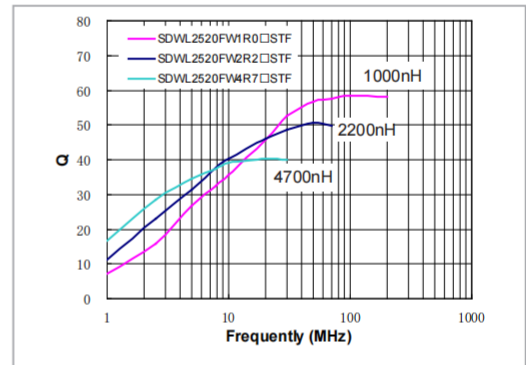


SDWL2520FW TYPE

Inductance vs. Frequency Characteristics

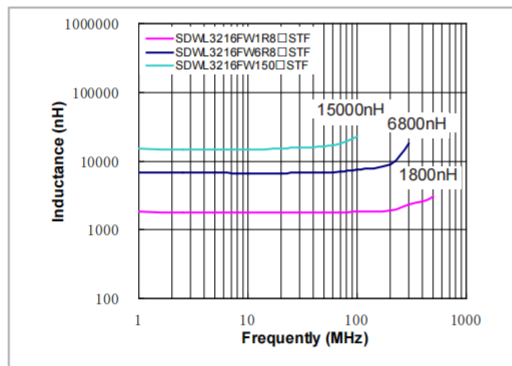


Q vs. Frequency Characteristics

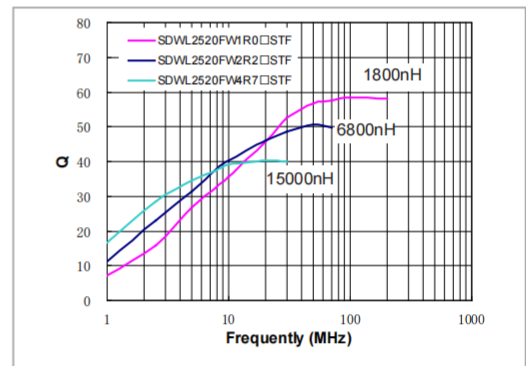


SDWL3216FW TYPE

Inductance vs. Frequency Characteristics

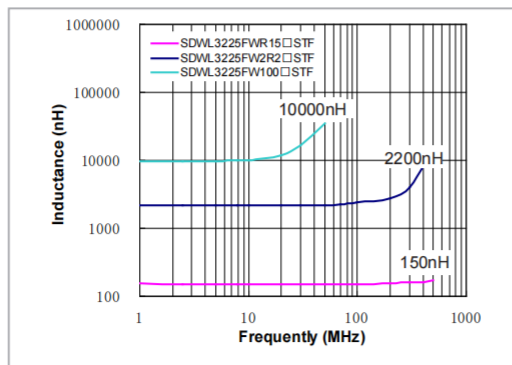


Q vs. Frequency Characteristics



SDWL3225FW TYPE

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics

