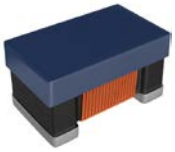
Wire Wound Chip Ferrite Inductor – SDWL-FW Series

Operating Temp. : -40℃~+85℃



FEATURES

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

APPLICATIONS

- Video cameras, liquid crystal television, and other electronic devices

PRODUCT IDENTIFICATION

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

①

Type	
SDWL	Wire Wound Chip Inductor

②

External Dimensions
2012 [0805]
2520 [1008]
3216 [1206]
3225 [1210]

③

Material Code	
FW	Ferrite

④

Nominal Inductance	
Example	Nominal Value
R27	270nH
2R7	2.7μH
270	27μH

⑤

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

⑥

Feature Type	
S	Sn Plating Five-faces Coating

⑦

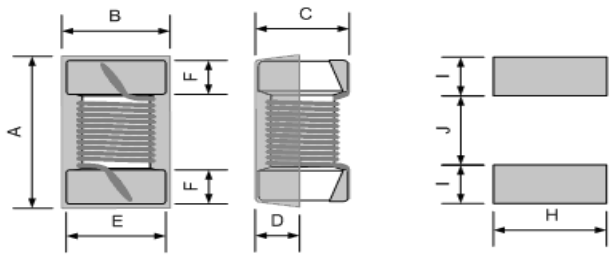
Packing	
T	Tape & Reel

⑧

Hazardous Substance Free Products
F

SHAPE AND DIMENSIONS

SDWL2012/2520/3216/3225FW Type



Unit: mm

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

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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	Ir
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	Ir
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	0.8	600
SDWL2520FW1R2☐STF	1.2	J, K, M	37	7.9/50	250	0.8	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

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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
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
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	1.0	320
SDWL3225FW2R7□STF	2.7	J, K, M	30	7.9	70	1.1	290
SDWL3225FW3R3□STF	3.3	J, K, M	30	7.9	60	1.2	260
SDWL3225FW3R9□STF	3.9	J, K, M	30	7.9	55	1.3	250
SDWL3225FW4R7□STF	4.7	J, K, M	30	7.9	50	1.5	224
SDWL3225FW5R6□STF	5.6	J, K, M	30	7.9	45	1.6	204
SDWL3225FW6R8□STF	6.8	J, K, M	30	7.9	40	1.8	180
SDWL3225FW8R2□STF	8.2	J, K, M	30	7.9	35	2.0	170
SDWL3225FW100□STF	10	J, K, M	25	7.9	30	2.1	150
SDWL3225FW120□STF	12	J, K, M	25	7.9	20	2.5	140

※□: Please specify the inductance tolerance code (J=±5%, K=±10%, M=±20%).

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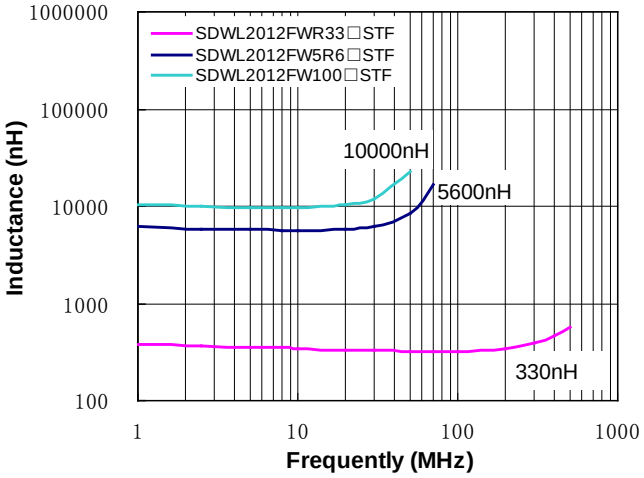
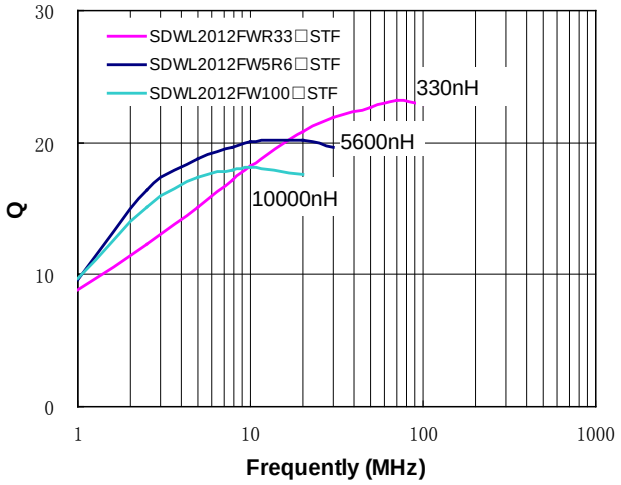
TYPICAL ELECTRICAL CHARACTERISTICS

SDWL2012FW TYPE

Inductance vs. Frequency Characteristics

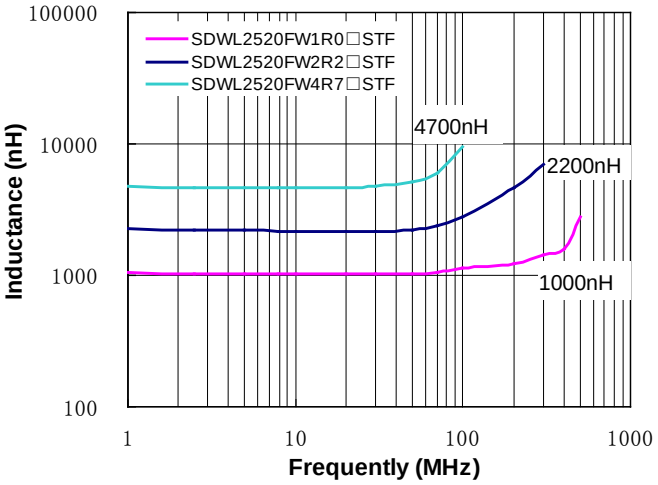


Q vs. Frequency Characteristics

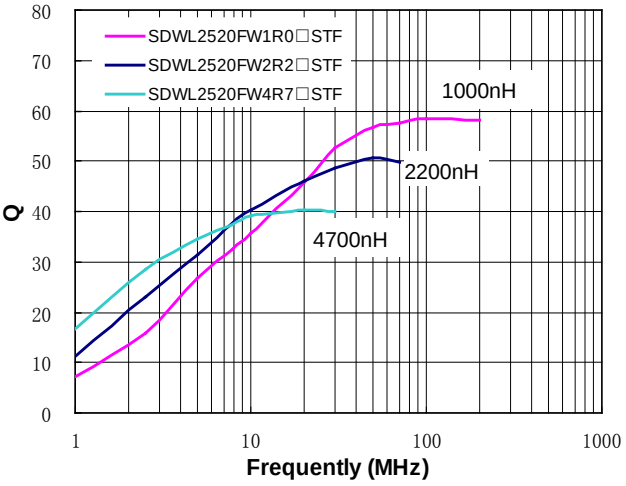


SDWL2520FW TYPE

Inductance vs. Frequency Characteristics

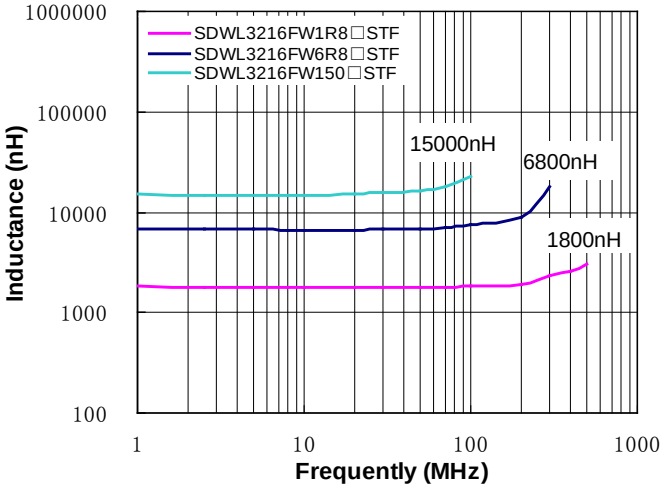


Q vs. Frequency Characteristics

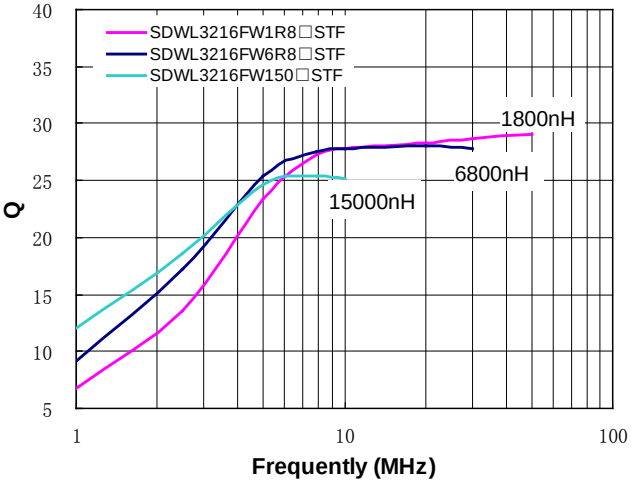


SDWL3216FW TYPE

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics



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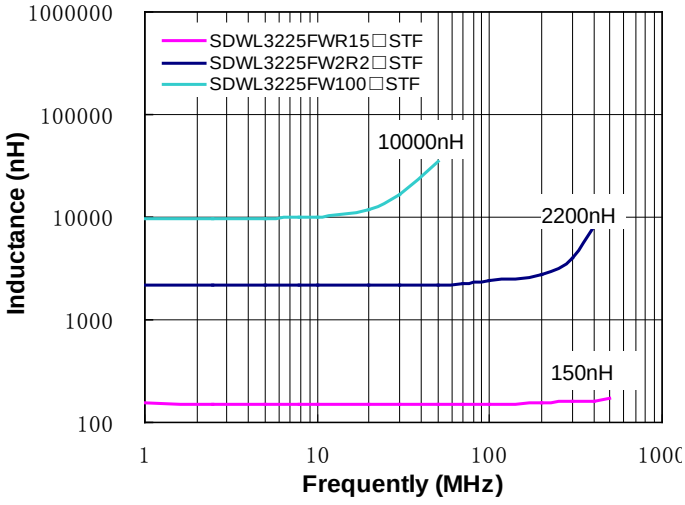
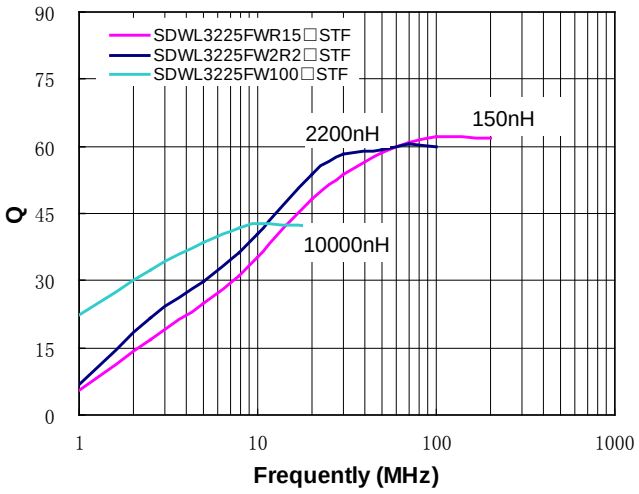
TYPICAL ELECTRICAL CHARACTERISTICS

SDWL3225FW TYPE

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics



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