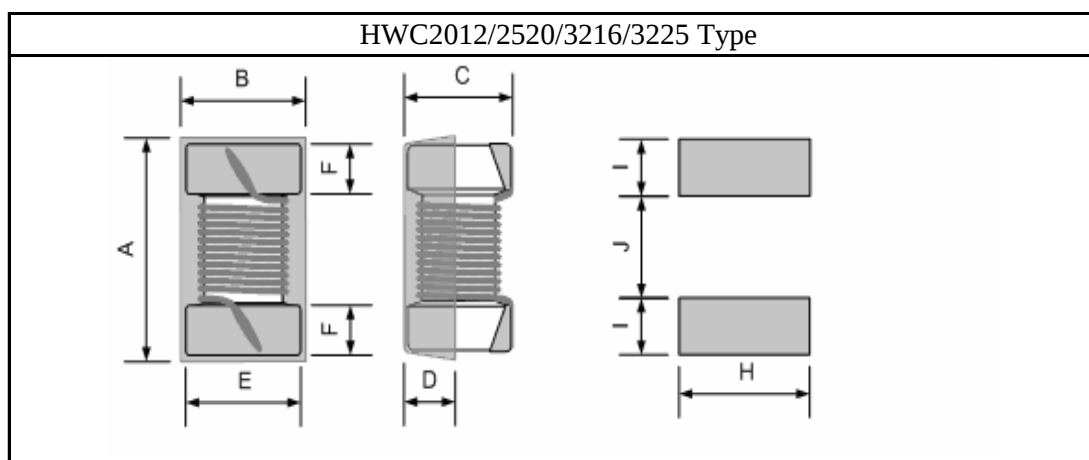


I
Internal code
XX

1 OF 7



SHAPE AND DIMENSIONS



Unit: mm

Series	A Max.	B Max.	C Max.	D Ref.	E	F	H Ref.	I Ref.	J Ref.
HSWL-FWS2012	2.29	1.73	1.55	0.51	1.27±0.2	0.51±0.2	1.78	1.02	0.76
HSWL-FWS2520	2.92	2.79	2.29	0.51	2.10±0.2	0.50±0.2	2.54	1.02	1.27
HSWL-FWS3216	3.56	2.16	1.52	0.51	1.60±0.2	0.50±0.2	1.93	1.02	1.78
HSWL-FWS3225	3.65	2.95	2.70	0.51	2.40±0.2	0.50±0.2	3.02	1.02	1.78

SPECIFICATIONS

HSWL-FWS2012 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
HSWL-FWS2012TR27□SFXX	0.27	J, K, M	15	25	550	0.91	350
HSWL-FWS2012TR47□SFXX	0.47	J, K, M	8	100	500	0.72	300
HSWL-FWS2012TR56□SFXX	0.56	J, K, M	15	25	360	0.60	145
HSWL-FWS2012T1R0□SFXX	1.0	J, K, M	15	7.9	63	1.20	245
HSWL-FWS2012T1R5□SFXX	1.5	J, K, M	15	7.9	60	1.45	225
HSWL-FWS2012T1R8□SFXX	1.8	J, K, M	15	7.9	60	1.45	200
HSWL-FWS2012T2R2□SFXX	2.2	J, K, M	10	7.9/50	200	2.50	100
HSWL-FWS2012T3R3□SFXX	3.3	J, K, M	15	7.9	50	2.30	175
HSWL-FWS2012T3R9□SFXX	3.9	J, K, M	10	7.9	50	2.50	80
HSWL-FWS2012T4R7□SFXX	4.7	J, K, M	15	7.9	43	2.80	140
HSWL-FWS2012T6R8□SFXX	6.8	J, K, M	15	7.9	36	3.40	115
HSWL-FWS2012T8R2□SFXX	8.2	J, K, M	10	7.9/2.5	35	4.50	100
HSWL-FWS2012T100□SFXX	10	J, K, M	10	2.5	30	4.70	98

The data is reference only. Customers should verify actual device performance in their specific applications. Specifications are subject to change without notice. Please check our website for latest information. <http://www.ftind.com>



Wire Wound Chip Ferrite Inductor

HSWL-FWS Series

SPECIFICATIONS

HSWL-FWS2012 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
HSWL-FWS2012T150□SFXX	15	J, K, M	10	2.5	23	6.50	80
HSWL-FWS2012T220□SFXX	22	J, K, M	10	2.5	20	8.00	68
HSWL-FWS2012T330□SFXX	33	J, K, M	10	2.5	17	10.70	60
HSWL-FWS2012T470□SFXX	47	J, K, M	10	2.5	14	13.80	55
HSWL-FWS2012T680□SFXX	68	J, K, M	8	2.5	11	17.50	40

HSWL-FWS2520 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
HSWL-FWS2520TR33□SFXX	0.33	J, K, M	50	25/100	600	0.17	700
HSWL-FWS2520T1R0□SFXX	1.0	J, K, M	20	7.9/50	250	0.8	600
HSWL-FWS2520T1R2□SFXX	1.2	J, K, M	37	7.9/50	250	0.8	650
HSWL-FWS2520T1R5□SFXX	1.5	J, K, M	35	7.9/50	190	0.76	630
HSWL-FWS2520T1R8□SFXX	1.8	J, K, M	33	7.9/50	170	0.84	600
HSWL-FWS2520T2R2□SFXX	2.2	J, K, M	30	7.9/50	150	1.15	520
HSWL-FWS2520T2R7□SFXX	2.7	J, K, M	25	7.9/50	120	1.30	490
HSWL-FWS2520T3R3□SFXX	3.3	J, K, M	23	7.9/50	100	1.70	450
HSWL-FWS2520T3R9□SFXX	3.9	J, K, M	26	7.9/25	100	2.00	420
HSWL-FWS2520T4R7□SFXX	4.7	J, K, M	31	7.9	60	1.68	400
HSWL-FWS2520T5R6□SFXX	5.6	J, K, M	23	7.9	80	2.65	380
HSWL-FWS2520T6R8□SFXX	6.8	J, K, M	20	7.9	60	3.00	360
HSWL-FWS2520T8R2□SFXX	8.2	J, K, M	20	7.9	40	3.30	330
HSWL-FWS2520T100□SFXX	10	J, K, M	15	7.9	40	2.95	300

The data is reference only. Customers should verify actual device performance in their specific applications.
Specifications are subject to change without notice. Please check our website for latest information. <http://www.ftind.com>



Wire Wound Chip Ferrite Inductor

HSWL-FWS Series

SPECIFICATIONS

HSWL-FWS3216 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
HSWL-FWS3216T1R5□SFXX	1.5	J, K, M	25	7.9	260	1.20	320
HSWL-FWS3216T1R8□SFXX	1.8	J, K, M	25	7.9	250	1.20	320
HSWL-FWS3216T2R2□SFXX	2.2	J, K, M	25	7.9	240	1.30	300
HSWL-FWS3216T2R7□SFXX	2.7	J, K, M	25	7.9	230	1.40	300
HSWL-FWS3216T3R3□SFXX	3.3	J, K, M	25	7.9	200	1.50	280
HSWL-FWS3216T3R9□SFXX	3.9	J, K, M	25	7.9	190	1.90	280
HSWL-FWS3216T4R7□SFXX	4.7	J, K, M	25	7.9	170	2.20	280
HSWL-FWS3216T5R6□SFXX	5.6	J, K, M	25	7.9	160	2.40	260
HSWL-FWS3216T6R8□SFXX	6.8	J, K, M	25	7.9	150	2.80	240
HSWL-FWS3216T8R2□SFXX	8.2	J, K, M	25	7.9	130	3.10	220
HSWL-FWS3216T100□SFXX	10.0	J, K, M	25	7.9	120	4.00	200
HSWL-FWS3216T120□SFXX	12.0	J, K, M	18	2.5	110	4.60	200
HSWL-FWS3216T150□SFXX	15.0	J, K, M	16	2.5	90	8.20	160
HSWL-FWS3216T180□SFXX	18.0	J, K, M	16	2.5	80	9.00	130

HSWL-FWS3225 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
HSWL-FWS3225TR12□SFXX	0.12	J, K, M	30	25	500	0.22	450
HSWL-FWS3225TR15□SFXX	0.15	J, K, M	30	25	450	0.40	450
HSWL-FWS3225TR18□SFXX	0.18	J, K, M	30	25	400	0.28	450
HSWL-FWS3225TR22□SFXX	0.22	J, K, M	30	25	350	0.32	450
HSWL-FWS3225TR27□SFXX	0.27	J, K, M	30	25	320	0.36	450
HSWL-FWS3225TR33□SFXX	0.33	J, K, M	30	25	300	0.40	450
HSWL-FWS3225TR39□SFXX	0.39	J, K, M	30	25	250	0.45	450
HSWL-FWS3225TR47□SFXX	0.47	J, K, M	30	25	220	0.50	450
HSWL-FWS3225TR56□SFXX	0.56	J, K, M	30	25	180	0.55	450
HSWL-FWS3225TR68□SFXX	0.68	J, K, M	30	25	160	0.60	450
HSWL-FWS3225TR82□SFXX	0.82	J, K, M	30	25	140	0.65	450
HSWL-FWS3225T1R0□SFXX	1.0	J, K, M	30	7.9	120	0.70	400

The data is reference only. Customers should verify actual device performance in their specific applications.
Specifications are subject to change without notice. Please check our website for latest information. <http://www.ftind.com>



Wire Wound Chip Ferrite Inductor

HSWL-FWS Series

SPECIFICATIONS

HSWL-FWS3225 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
HSWL-FWS3225T1R2□SFXX	1.2	J, K, M	30	7.9	100	0.75	390
HSWL-FWS3225T1R5□SFXX	1.5	J, K, M	30	7.9	85	0.85	370
HSWL-FWS3225T1R8□SFXX	1.8	J, K, M	30	7.9	80	0.90	350
HSWL-FWS3225T2R2□SFXX	2.2	J, K, M	30	7.9	75	1.0	320
HSWL-FWS3225T2R7□SFXX	2.7	J, K, M	30	7.9	70	1.1	290
HSWL-FWS3225T3R3□SFXX	3.3	J, K, M	30	7.9	60	1.2	260
HSWL-FWS3225T3R9□SFXX	3.9	J, K, M	30	7.9	55	1.3	250
HSWL-FWS3225T4R7□SFXX	4.7	J, K, M	30	7.9	50	1.5	224
HSWL-FWS3225T5R6□SFXX	5.6	J, K, M	30	7.9	45	1.6	204
HSWL-FWS3225T6R8□SFXX	6.8	J, K, M	30	7.9	40	1.8	180
HSWL-FWS3225T8R2□SFXX	8.2	J, K, M	30	7.9	35	2.0	170
HSWL-FWS3225T100□SFXX	10	J, K, M	25	7.9	30	2.1	150
HSWL-FWS3225T120□SFXX	12	J, K, M	25	7.9	20	2.5	140

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

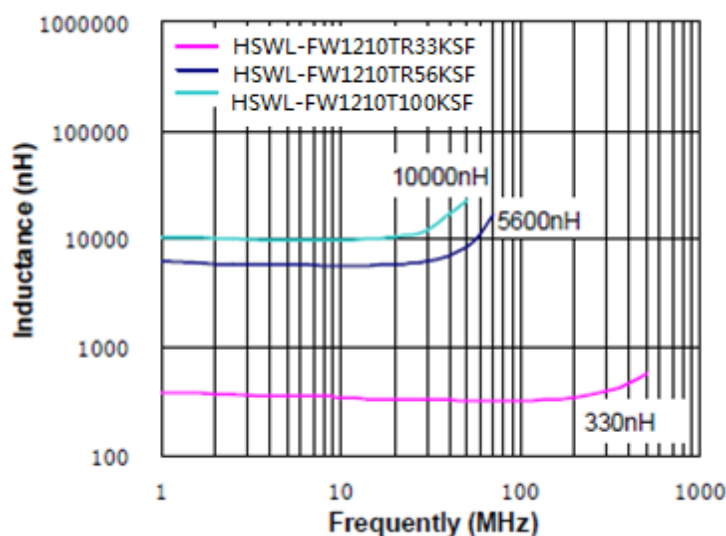
The data is reference only. Customers should verify actual device performance in their specific applications.
Specifications are subject to change without notice. Please check our website for latest information. <http://www.ftind.com>



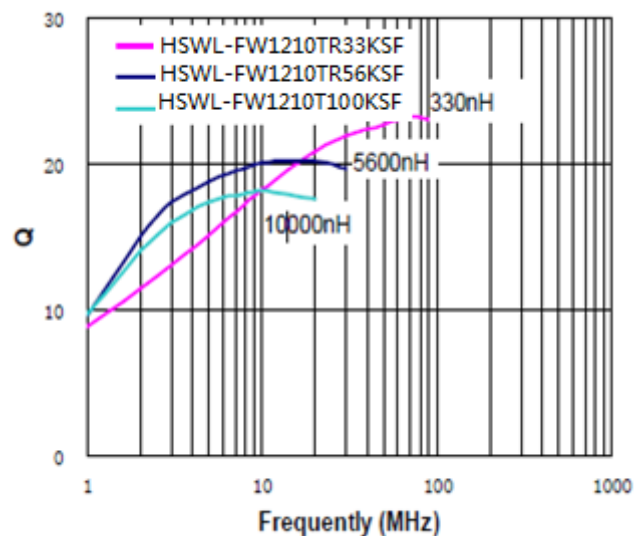
TYPICAL ELECTRICAL CHARACTERISTICS

HSWL-FWS2012 TYPE

Inductance vs. Frequency Characteristics

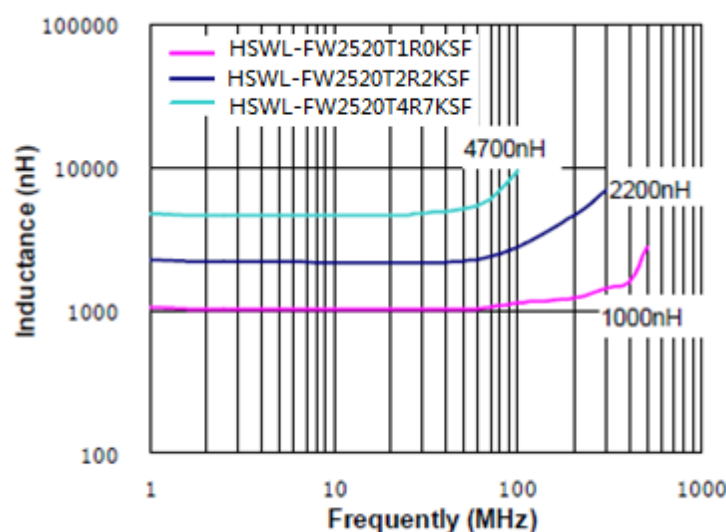


Q vs. Frequency Characteristics

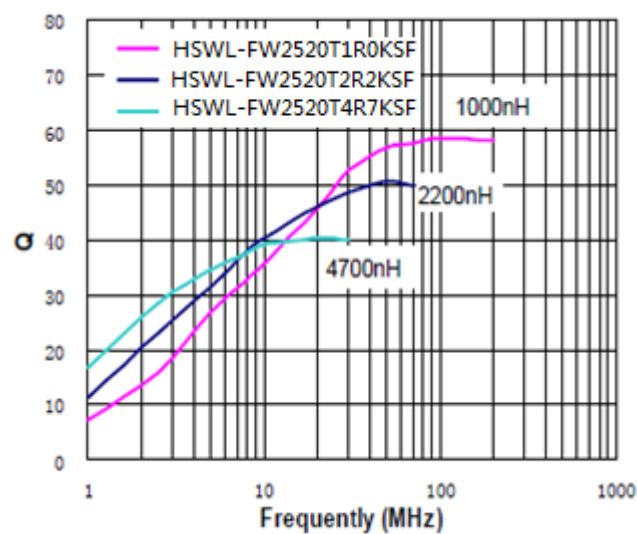


HSWL-FWS2520 TYPE

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics



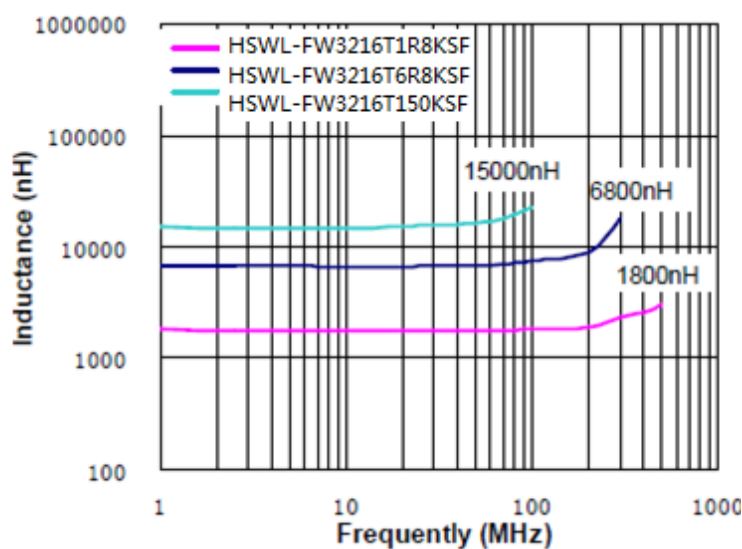
The data is reference only. Customers should verify actual device performance in their specific applications. Specifications are subject to change without notice. Please check our website for latest information. <http://www.ftind.com>



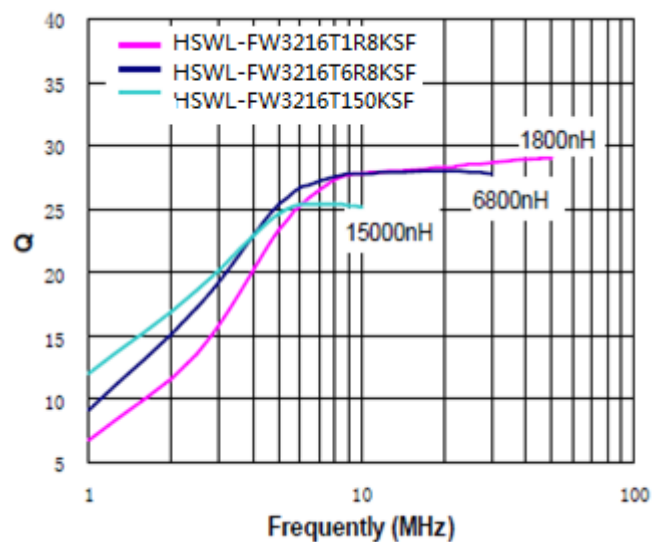
TYPICAL ELECTRICAL CHARACTERISTICS

HSWL-FWS3216 TYPE

Inductance vs. Frequency Characteristics

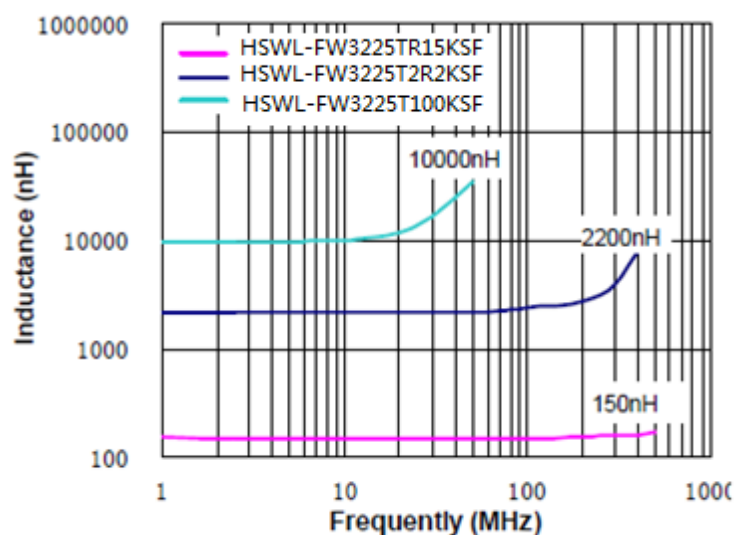


Impedance vs. Frequency Characteristics

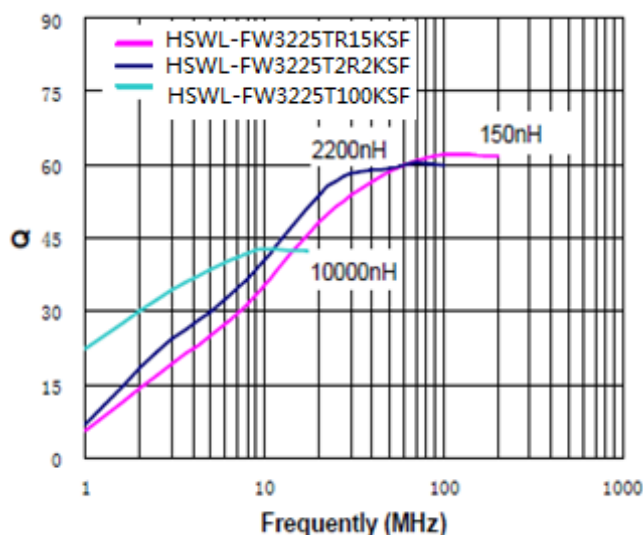


HSWL-FWS3225 TYPE

Inductance vs. Frequency Characteristics



Impedance vs. Frequency Characteristics



The data is reference only. Customers should verify actual device performance in their specific applications.
Specifications are subject to change without notice. Please check our website for latest information. <http://www.ftind.com>