

3c). WFI Series (Molded Ferrite Type)

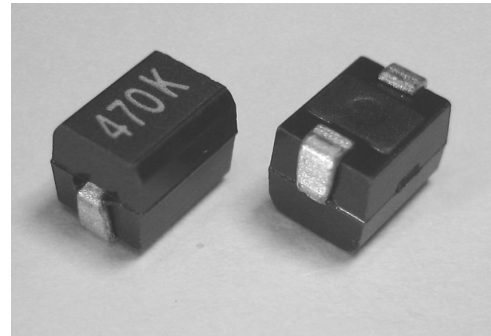
Range of Size: (1210(3225)~1812(4532))

Test Equipment: **HP4194A** - Inductance & Q measurement

HP4291A - SRF measurement

CH-502AC - DCR measurement

Operating Temperature : -40 ~+125



Applications

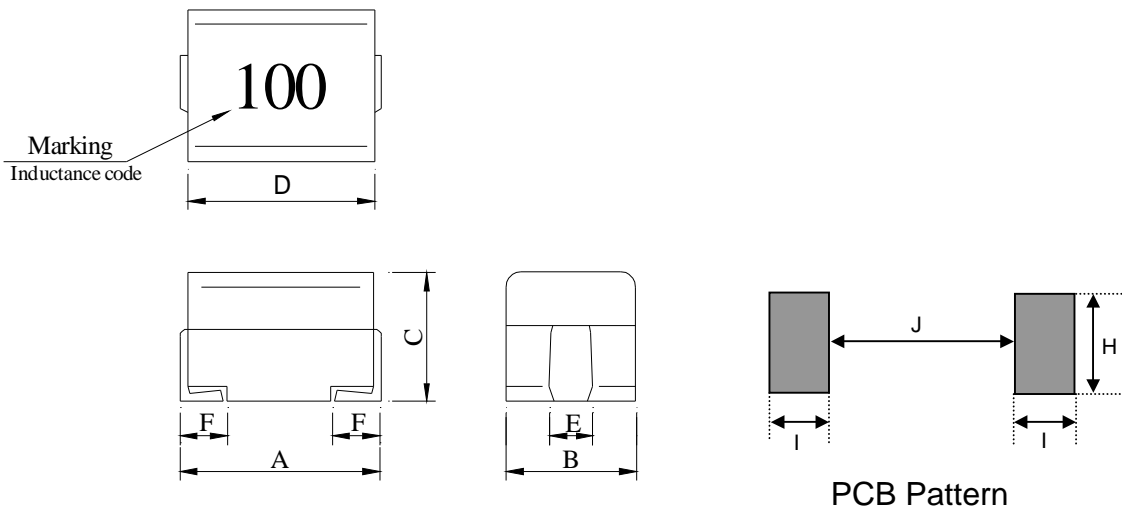
- > Personal computers, hard disk drives.
- > ADSL modem and cable modem.
- > Digital camera, LCD TV, GPS receiver.
- > Other electronic equipment.

Features

- > Utilizing a miniaturized winding structure.
- > These products provide high Q characteristics.
- > Resin-coated surface enable excellent mounting.
- > Low DC resistance design is ideal for low loss.
- > Precision inductance tolerance is available.
- > Excellent solderability and resistance to soldering heat impact.

General Dimensions and Configuration

SHAPE:



DIMENSIONS:

SERIES	A (m/m)	B (m/m)	C (m/m)	D (m/m)	E (m/m)	F (m/m)	H (m/m)	I (m/m)	J (m/m)
WFI-3225	3.20±0.40	2.50±0.20	2.20±0.20	2.90±0.20	1.00±0.20	0.60 +0.30-0.00	1.40	1.00	1.80
WFI-4532	4.50±0.30	3.20±0.20	3.20±0.20	4.20±0.20	1.20	1.00 +0.30-0.00	1.60	1.50	2.20

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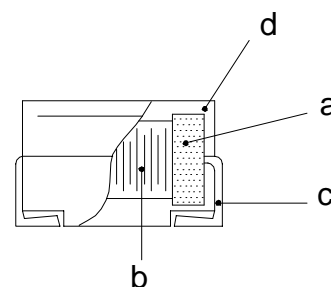
Inductance, SRF, Q and Rated Current ranges

SERIES	Inductance (μH)	SRF (Min.) (MHz)	Q (Min.)	I (Rated) (mA)
WFI-3225	0.12~150.0	500~8.0	20~30	450~40
WFI-4532	0.10~1000.0	300~2.5	20~50	800~30

Characteristics & Material's Construction

MATERIAL'S CONSTRUCTION:

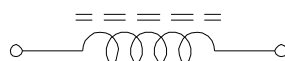
- a. Core : Ferrite DR Core
- b. Wire : Enamelled copper wire (Class H)
- c. Terminal : Cu / Sn
- d. Encapsulate : Epoxy novolac molding compound



CHARACTERISTICS:

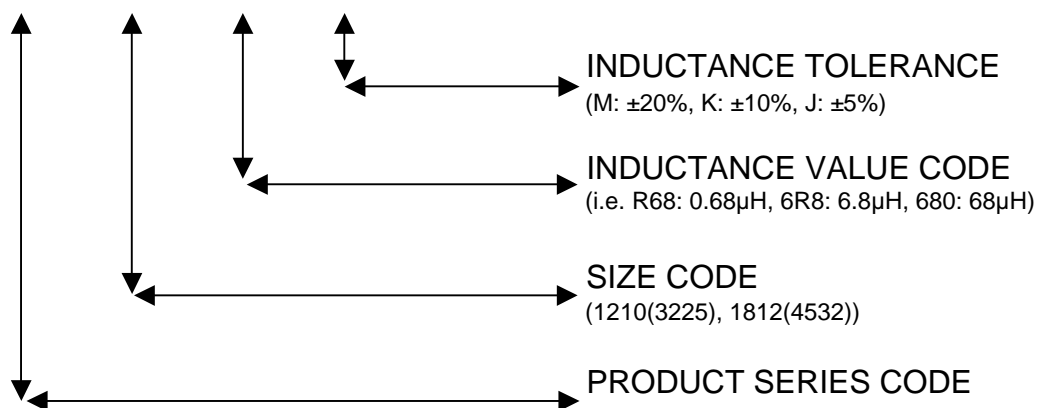
- 1. Ambient Temperature : 100 (Max.)
- 2. Terminal pull strength : 1.5 Kg (Min.)
- 3. Rated Current :
The current when the inductance drops within 10% of its initial value
- 4. Resistance to solder heat : 250 . 10 seconds

SCHEMATIC DIAGRAM:



Part Numbering Systems

WFI - 3225 -101 K



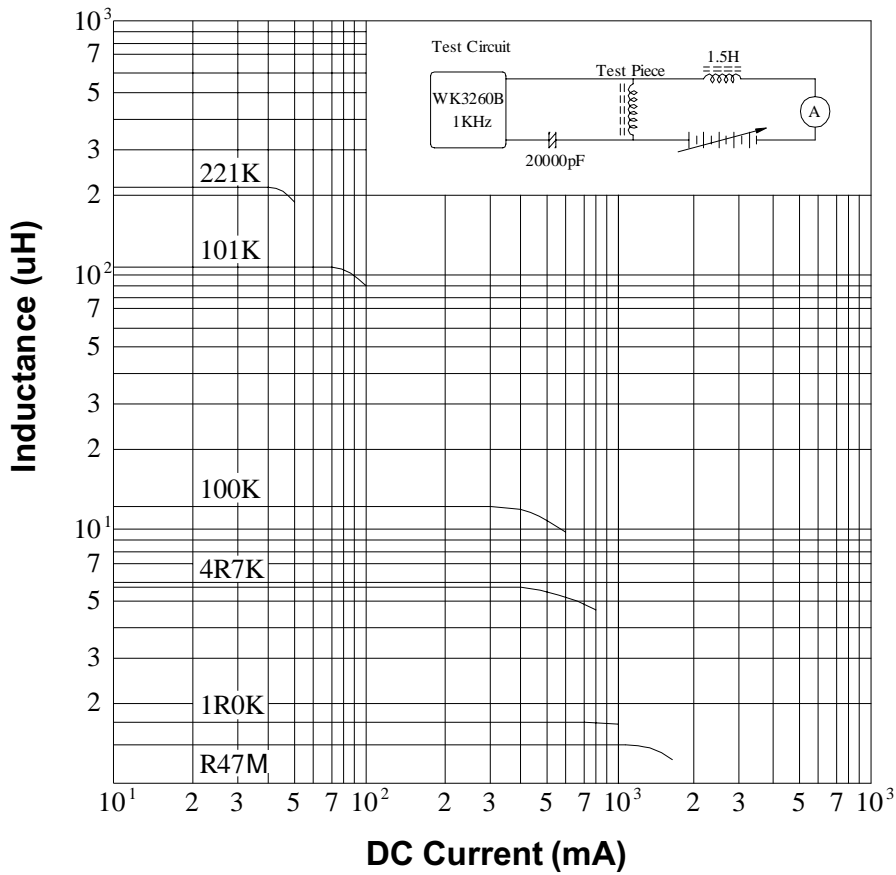
3c). WFI Series (Molded Ferrite Type) (Size: 1210 (3225))**Electrical Characteristics**

Part No.	L (μH) @ _MHz	Inductance Tolerance	Q (Min.) @ _MHz	SRF (Min.) (MHz)	DCR (Ω) (Max.)	Rated current (mA) (Max.)
WFI-3225-R12	0.12 @ 25.2	K, M	30 @ 25.2	500	0.22	450
WFI-3225-R15	0.15 @ 25.2	K, M	30 @ 25.2	450	0.25	450
WFI-3225-R18	0.18 @ 25.2	K, M	30 @ 25.2	400	0.28	450
WFI-3225-R22	0.22 @ 25.2	K, M	30 @ 25.2	350	0.32	450
WFI-3225-R27	0.27 @ 25.2	K, M	30 @ 25.2	320	0.36	450
WFI-3225-R33	0.33 @ 25.2	K, M	30 @ 25.2	300	0.40	450
WFI-3225-R39	0.39 @ 25.2	K, M	30 @ 25.2	250	0.45	450
WFI-3225-R47	0.47 @ 25.2	K, M	30 @ 25.2	220	0.50	450
WFI-3225-R56	0.56 @ 25.2	K, M	30 @ 25.2	180	0.55	450
WFI-3225-R68	0.68 @ 25.2	K, M	30 @ 25.2	160	0.60	450
WFI-3225-R82	0.82 @ 25.2	K, M	30 @ 25.2	140	0.65	450
WFI-3225-1R0	1.00 @ 7.96	J, K, M	30 @ 7.96	120	0.70	400
WFI-3225-1R2	1.20 @ 7.96	J, K, M	30 @ 7.96	100	0.75	390
WFI-3225-1R5	1.50 @ 7.96	J, K, M	30 @ 7.96	85	0.85	370
WFI-3225-1R8	1.80 @ 7.96	J, K, M	30 @ 7.96	80	0.90	350
WFI-3225-2R2	2.20 @ 7.96	J, K, M	30 @ 7.96	75	1.00	320
WFI-3225-2R7	2.70 @ 7.96	J, K, M	30 @ 7.96	70	1.10	290
WFI-3225-3R3	3.30 @ 7.96	J, K, M	30 @ 7.96	60	1.20	260
WFI-3225-3R9	3.90 @ 7.96	J, K, M	30 @ 7.96	55	1.30	250
WFI-3225-4R7	4.70 @ 7.96	J, K, M	30 @ 7.96	50	1.50	220
WFI-3225-5R6	5.60 @ 7.96	J, K, M	30 @ 7.96	45	1.60	200
WFI-3225-6R8	6.80 @ 7.96	J, K, M	30 @ 7.96	40	1.80	180
WFI-3225-8R2	8.20 @ 7.96	J, K, M	30 @ 7.96	35	2.00	170
WFI-3225-100	10 @ 2.52	J, K, M	30 @ 2.52	30	2.10	150
WFI-3225-120	12 @ 2.52	J, K, M	30 @ 2.52	20	2.50	140
WFI-3225-150	15 @ 2.52	J, K, M	30 @ 2.52	20	2.80	130
WFI-3225-180	18 @ 2.52	J, K, M	30 @ 2.52	20	3.30	120
WFI-3225-220	22 @ 2.52	J, K, M	30 @ 2.52	20	3.70	110
WFI-3225-270	27 @ 2.52	J, K, M	30 @ 2.52	20	5.00	80
WFI-3225-330	33 @ 2.52	J, K, M	30 @ 2.52	17	5.60	70
WFI-3225-390	39 @ 2.52	J, K, M	30 @ 2.52	16	6.40	65
WFI-3225-470	47 @ 2.52	J, K, M	30 @ 2.52	15	7.00	60
WFI-3225-560	56 @ 2.52	J, K, M	30 @ 2.52	13	8.00	55
WFI-3225-680	68 @ 2.52	J, K, M	30 @ 2.52	12	9.00	50
WFI-3225-820	82 @ 2.52	J, K, M	30 @ 2.52	11	10.00	45
WFI-3225-101	100 @ 0.796	J, K, M	20 @ 0.796	10	11.00	40
WFI-3225-121	120 @ 0.796	J, K, M	20 @ 0.796	10	11.00	70
WFI-3225-151	150 @ 0.796	J, K, M	20 @ 0.796	8	15.00	65

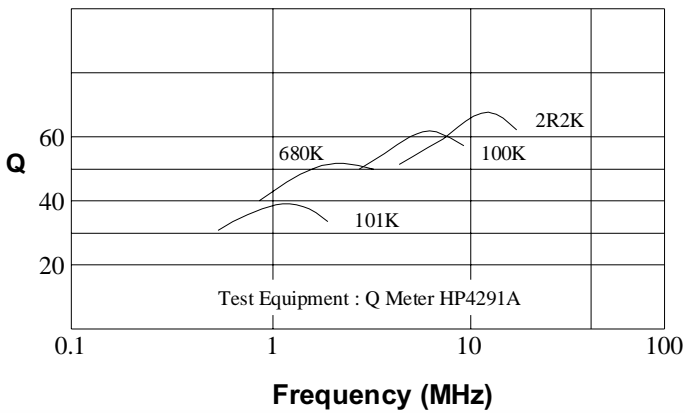
3c). WFI Series (Molded Ferrite Type) (Size: 1210 (3225))

Rating Curves

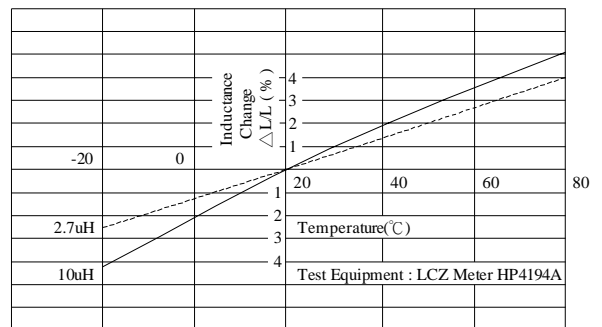
Inductance VS. DC Superposition Characteristics



@ Q VS. Frequency Response



@ Inductance Change VS. Temperature Response



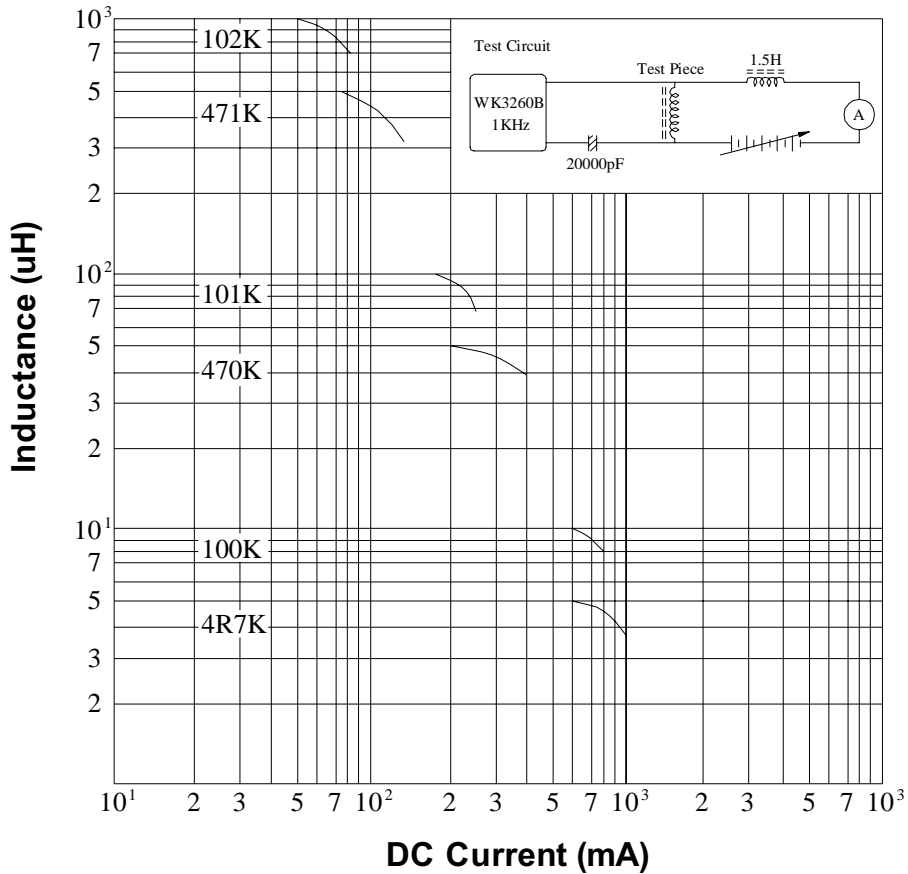
3c). WFI Series (Molded Ferrite Type) (Size: 1812 (4532))**Electrical Characteristics**

Part No.	L (μH) @ _MHz	Inductance Tolerance	Q (Min.) @ _MHz	SRF (Min.) (MHz)	DCR () (Max.)	Rated current (mA) (Max.)
WFI-4532-R10	0.10 @ 25.2	K, M	35 @ 25.2	300	0.18	800
WFI-4532-R12	0.12 @ 25.2	K, M	35 @ 25.2	280	0.20	770
WFI-4532-R15	0.15 @ 25.2	K, M	35 @ 25.2	250	0.22	730
WFI-4532-R18	0.18 @ 25.2	K, M	35 @ 25.2	220	0.24	700
WFI-4532-R22	0.22 @ 25.2	K, M	40 @ 25.2	200	0.25	665
WFI-4532-R27	0.27 @ 25.2	K, M	40 @ 25.2	180	0.26	635
WFI-4532-R33	0.33 @ 25.2	K, M	40 @ 25.2	165	0.28	605
WFI-4532-R39	0.39 @ 25.2	K, M	40 @ 25.2	150	0.30	575
WFI-4532-R47	0.47 @ 25.2	K, M	40 @ 25.2	145	0.32	545
WFI-4532-R56	0.56 @ 25.2	K, M	40 @ 25.2	140	0.36	520
WFI-4532-R68	0.68 @ 25.2	K, M	40 @ 25.2	135	0.40	500
WFI-4532-R82	0.82 @ 25.2	K, M	40 @ 25.2	130	0.45	475
WFI-4532-1R0	1.00 @ 7.96	J, K, M	50 @ 7.96	100	0.50	450
WFI-4532-1R2	1.20 @ 7.96	J, K, M	50 @ 7.96	80	0.55	430
WFI-4532-1R5	1.50 @ 7.96	J, K, M	50 @ 7.96	70	0.60	410
WFI-4532-1R8	1.80 @ 7.96	J, K, M	50 @ 7.96	60	0.65	390
WFI-4532-2R2	2.20 @ 7.96	J, K, M	50 @ 7.96	55	0.70	380
WFI-4532-2R7	2.70 @ 7.96	J, K, M	50 @ 7.96	50	0.75	370
WFI-4532-3R3	3.30 @ 7.96	J, K, M	50 @ 7.96	45	0.80	355
WFI-4532-3R9	3.90 @ 7.96	J, K, M	50 @ 7.96	40	0.90	330
WFI-4532-4R7	4.70 @ 7.96	J, K, M	50 @ 7.96	35	1.00	315
WFI-4532-5R6	5.60 @ 7.96	J, K, M	50 @ 7.96	33	1.10	300
WFI-4532-6R8	6.80 @ 7.96	J, K, M	50 @ 7.96	27	1.20	285
WFI-4532-8R2	8.20 @ 7.96	J, K, M	50 @ 7.96	25	1.40	270
WFI-4532-100	10 @ 2.52	J, K, M	50 @ 2.52	20	1.60	250
WFI-4532-120	12 @ 2.52	J, K, M	50 @ 2.52	18	2.00	225
WFI-4532-150	15 @ 2.52	J, K, M	50 @ 2.52	17	2.50	200
WFI-4532-180	18 @ 2.52	J, K, M	50 @ 2.52	15	2.80	190
WFI-4532-220	22 @ 2.52	J, K, M	50 @ 2.52	13	3.20	180
WFI-4532-270	27 @ 2.52	J, K, M	50 @ 2.52	12	3.60	170
WFI-4532-330	33 @ 2.52	J, K, M	50 @ 2.52	11	4.00	160
WFI-4532-390	39 @ 2.52	J, K, M	50 @ 2.52	10	4.50	150
WFI-4532-470	47 @ 2.52	J, K, M	50 @ 2.52	10	5.00	140
WFI-4532-560	56 @ 2.52	J, K, M	50 @ 2.52	9	5.50	135
WFI-4532-680	68 @ 2.52	J, K, M	50 @ 2.52	9	6.00	130
WFI-4532-820	82 @ 2.52	J, K, M	50 @ 2.52	8	7.00	120
WFI-4532-101	100 @ 0.796	J, K, M	40 @ 0.796	8	8.00	110
WFI-4532-121	120 @ 0.796	J, K, M	40 @ 0.796	6	8.00	110
WFI-4532-151	150 @ 0.796	J, K, M	40 @ 0.796	5	9.00	105
WFI-4532-181	180 @ 0.796	J, K, M	40 @ 0.796	5	9.50	102
WFI-4532-221	220 @ 0.796	J, K, M	40 @ 0.796	4	10.00	100
WFI-4532-271	270 @ 0.796	J, K, M	40 @ 0.796	4	12.00	92
WFI-4532-331	330 @ 0.796	J, K, M	40 @ 0.796	3.5	14.00	85
WFI-4532-391	390 @ 0.796	J, K, M	40 @ 0.796	3	18.00	80
WFI-4532-471	470 @ 0.796	J, K, M	40 @ 0.796	3	26.00	62
WFI-4532-561	560 @ 0.796	J, K, M	30 @ 0.796	3	30.00	50
WFI-4532-681	680 @ 0.796	J, K, M	30 @ 0.796	3	30.00	50
WFI-4532-821	820 @ 0.796	J, K, M	30 @ 0.796	2.5	35.00	30
WFI-4532-102	1000 @ 0.252	J, K, M	20 @ 0.252	2.5	40.00	30

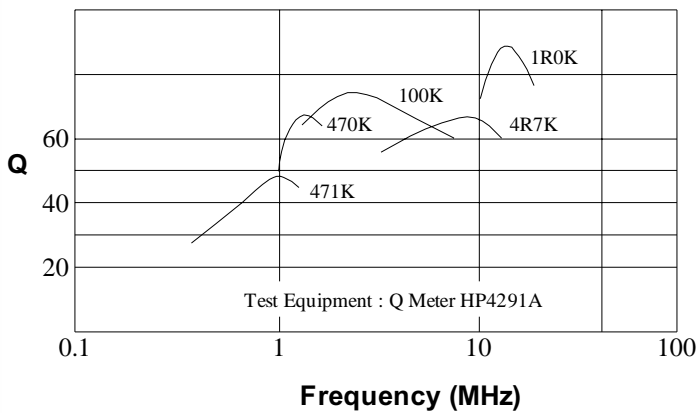
3c). WFI Series (Molded Ferrite Type) (Size: 1812 (4532))

Rating Curves

Inductance VS. DC Superposition Characteristics



Q VS. Frequency Response



Inductance Change VS. Temperature Response

