

## 3b). WFI Series (Molded Ferrite Type)

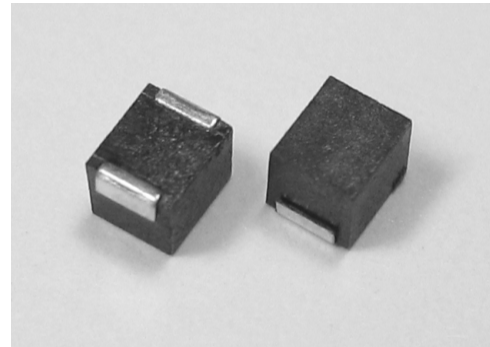
Range of Size: (1210(3225))

Test Equipment: **HP4291** - Inductance, Q & SRF measurement  
**Agilent 34401A** - DCR measurement

Operating Temperature : -40 ~+105

### Applications

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

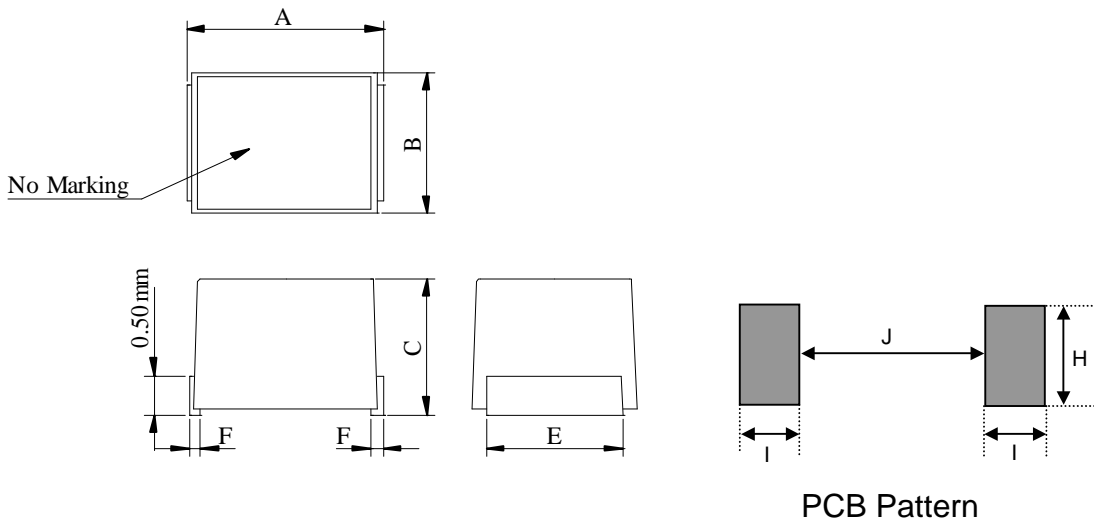


### Features

- > Utilizing a miniaturized winding structure.
- > These products provide high current 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)	E (m/m)	F (m/m)	H (m/m)	I (m/m)	J (m/m)
WFI-1210	3.20 ± 0.20	2.50 ± 0.20	2.20 ± 0.20	1.90 ± 0.10	0.40	2.00	1.20	2.00

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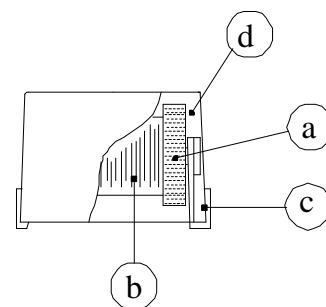
### Inductance, SRF, Q and Rated Current ranges

SERIES	Inductance ( $\mu\text{H}$ )	SRF (Min.) (MHz)	Q (Min.)	I (Rated) (mA)
WFI-1210	0.01~470.0	2500~4	15~30	450~25

### Characteristics & Material's Construction

#### MATERIAL'S CONSTRUCTION:

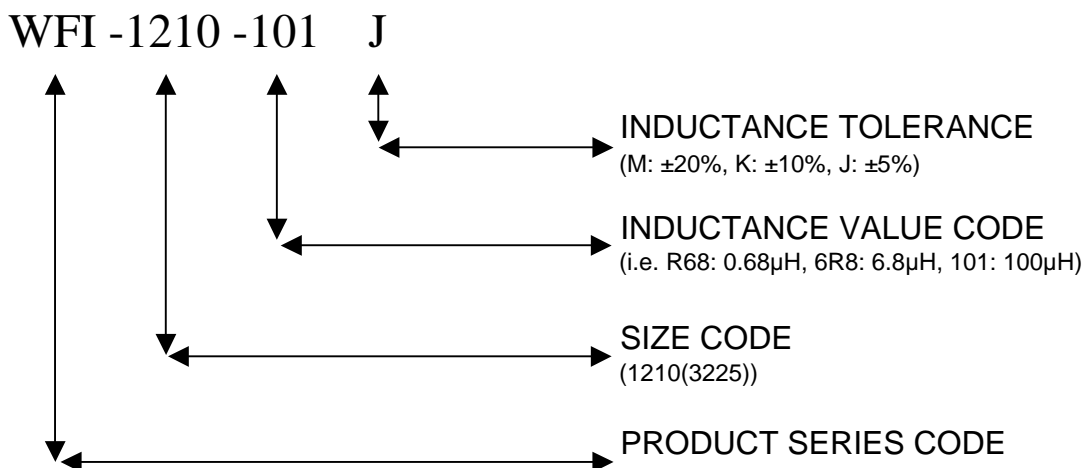
- a. Ferrite Core
- b. Polyurethane Wire
- c. Electrode (Tinned Copper Wire)
- d. Thermoplastic Resin



#### CHARACTERISTICS:

- 1. Resistance to solder heat:
  - Pre-heating : 150 , 1 min.
  - Solder Temperature : 260 +/- 5
  - Immersion Time : 10 +/- 1 seconds
- 2. Rated Current :
  - The current when the inductance drops within 10% of its initial value

### Part Numbering Systems



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

Part No.	Inductance ( $\mu$ H)	Q (Min.)	Test Freq. (MHz)	SRF (Min.) (MHz)	DCR (Max.)	IDC (mA) (Max.)
WFI-1210-10NJ	0.010 $\pm$ 5%	15	100	2500	0.13	450
WFI-1210-12NJ	0.012 $\pm$ 5%	17	100	2300	0.14	450
WFI-1210-15NJ	0.015 $\pm$ 5%	19	100	2100	0.16	450
WFI-1210-18NJ	0.018 $\pm$ 5%	21	100	1900	0.18	450
WFI-1210-22NJ	0.022 $\pm$ 5%	23	100	1700	0.20	450
WFI-1210-27NJ	0.027 $\pm$ 5%	23	100	1500	0.22	450
WFI-1210-33NJ	0.033 $\pm$ 5%	25	100	1400	0.24	450
WFI-1210-39NJ	0.039 $\pm$ 5%	25	100	1300	0.27	450
WFI-1210-47NJ	0.047 $\pm$ 5%	26	100	1200	0.30	450
WFI-1210-56NJ	0.056 $\pm$ 5%	26	100	1100	0.33	450
WFI-1210-68NJ	0.068 $\pm$ 5%	27	100	1000	0.36	450
WFI-1210-82NJ	0.082 $\pm$ 5%	27	100	900	0.40	450
WFI-1210-R10J	0.10 $\pm$ 5%	28	100	700	0.44	450
WFI-1210-R12J	0.12 $\pm$ 5%	30	25.2	500	0.22	450
WFI-1210-R15J	0.15 $\pm$ 5%	30	25.2	450	0.25	450
WFI-1210-R18J	0.18 $\pm$ 5%	30	25.2	400	0.28	450
WFI-1210-R22J	0.22 $\pm$ 5%	30	25.2	350	0.32	450
WFI-1210-R27J	0.27 $\pm$ 5%	30	25.2	320	0.36	450
WFI-1210-R33J	0.33 $\pm$ 5%	30	25.2	300	0.40	450
WFI-1210-R39J	0.39 $\pm$ 5%	30	25.2	250	0.45	450
WFI-1210-R47J	0.47 $\pm$ 5%	30	25.2	220	0.50	450
WFI-1210-R56J	0.56 $\pm$ 5%	30	25.2	180	0.55	450
WFI-1210-R68J	0.68 $\pm$ 5%	30	25.2	160	0.60	450
WFI-1210-R82J	0.82 $\pm$ 5%	30	25.2	140	0.65	450
WFI-1210-1R0J	1.0 $\pm$ 5%	30	7.96	120	0.70	400
WFI-1210-1R2J	1.2 $\pm$ 5%	30	7.96	100	0.75	390
WFI-1210-1R5J	1.5 $\pm$ 5%	30	7.96	85	0.85	370
WFI-1210-1R8J	1.8 $\pm$ 5%	30	7.96	80	0.90	350
WFI-1210-2R2J	2.2 $\pm$ 5%	30	7.96	75	1.00	320
WFI-1210-2R7J	2.7 $\pm$ 5%	30	7.96	70	1.10	290
WFI-1210-3R3J	3.3 $\pm$ 5%	30	7.96	60	1.20	260
WFI-1210-3R9J	3.9 $\pm$ 5%	30	7.96	55	1.30	250
WFI-1210-4R7J	4.7 $\pm$ 5%	30	7.96	50	1.50	220
WFI-1210-5R6J	5.6 $\pm$ 5%	30	7.96	45	1.60	200
WFI-1210-6R8J	6.8 $\pm$ 5%	30	7.96	40	1.80	180
WFI-1210-8R2J	8.2 $\pm$ 5%	30	7.96	35	2.00	170
WFI-1210-100J	10 $\pm$ 5%	30	2.52	30	2.10	150
WFI-1210-120J	12 $\pm$ 5%	30	2.52	20	2.50	140
WFI-1210-150J	15 $\pm$ 5%	30	2.52	20	2.80	130
WFI-1210-180J	18 $\pm$ 5%	30	2.52	20	3.30	120
WFI-1210-220J	22 $\pm$ 5%	30	2.52	20	3.70	110
WFI-1210-270J	27 $\pm$ 5%	30	2.52	20	5.00	80
WFI-1210-330J	33 $\pm$ 5%	30	2.52	17	5.60	70
WFI-1210-390J	39 $\pm$ 5%	30	2.52	16	6.40	65
WFI-1210-470J	47 $\pm$ 5%	30	2.52	15	7.00	60
WFI-1210-560J	56 $\pm$ 5%	30	2.52	13	8.00	55
WFI-1210-680J	68 $\pm$ 5%	30	2.52	12	9.00	50
WFI-1210-820J	82 $\pm$ 5%	30	2.52	11	10.00	45
WFI-1210-101J	100 $\pm$ 5%	20	0.796	10	10.00	40
WFI-1210-121J	120 $\pm$ 5%	20	0.796	10	11.00	70
WFI-1210-151J	150 $\pm$ 5%	20	0.796	8	15.00	65
WFI-1210-181J	180 $\pm$ 5%	20	0.796	7	17.00	60
WFI-1210-221J	220 $\pm$ 5%	20	0.796	7	21.00	50
WFI-1210-271J	270 $\pm$ 5%	20	0.796	6	28.00	45
WFI-1210-331J	330 $\pm$ 5%	20	0.796	5	34.00	40
WFI-1210-391J	390 $\pm$ 5%	20	0.796	5	36.00	35
WFI-1210-471J	470 $\pm$ 5%	20	0.796	4	40.00	25