

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

Range of Size: (1008(2520))

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

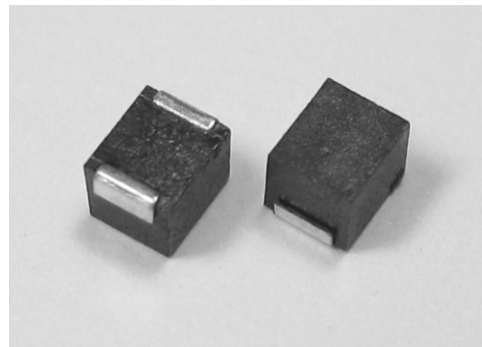
**HP4291A** - SRF measurement

**CH-502AC** - DCR measurement

Operating Temperature : -40 ~+85

#### Applications

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

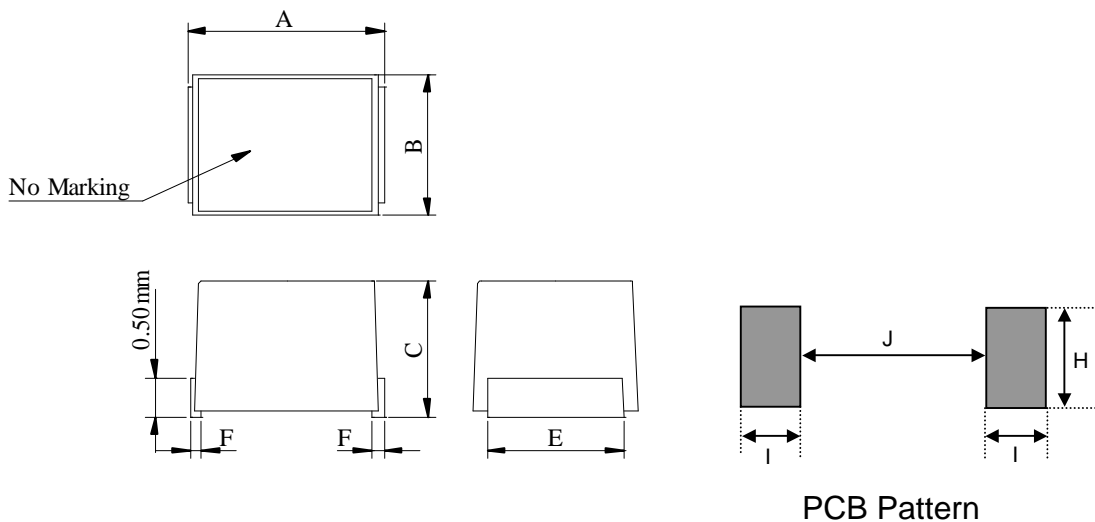


#### Features

- > 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)	E (m/m)	F (m/m)	H (m/m)	I (m/m)	J (m/m)
WFI-2520	2.50 ± 0.20	2.00 ± 0.10	1.80 ± 0.10	1.40 ± 0.10	0.40	1.50	0.90	1.50

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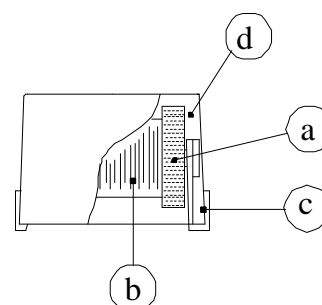
### Inductance, SRF, Q and Rated Current ranges

SERIES	Inductance ( $\mu\text{H}$ )	SRF (Min.) (MHz)	Q (Min.)	I (Rated) (mA)
WFI-2520	0.01~100.0	2150~12	15~30	530~60

### Characteristics & Material's Construction

#### MATERIAL's CONSTRUCTION:

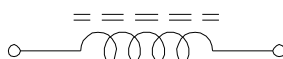
- a. Core : Ferrite DR Core
- b. Wire : Enamelled copper wire (Class F)
- c. Terminal : Cu / Sn
- d. Encapsulate : Epoxy novolac molding compound



#### CHARACTERISTICS:

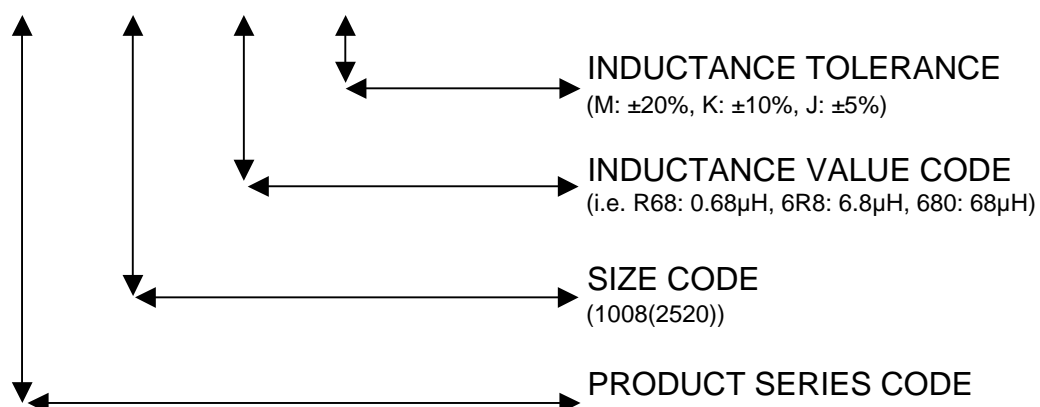
- 1. Ambient Temperature : 80 (Max.)
- 2. Terminal pull strength : 0.5 Kg (Min.)
- 3. Rated Current :  
The current when the inductance drops within 10% of its initial value
- 4. Resistance to solder heat : 260 . 10 seconds

#### SCHEMATIC DIAGRAM:



### Part Numbering Systems

WFI -2520 -101 J



*3a). WFI Series (Molded Ferrite Type) (Size: 2520 (1008))*Electrical Characteristics

Part No.	Inductance ( $\mu$ H)	Q (Min.)	Test Freq. (MHz)	SRF (Min.) (MHz)	DCR (Max.)	IDC (mA) (Max.)
WFI-2520-10NJ	0.010 $\pm$ 5%	15	100	2150	0.26	530
WFI-2520-12NJ	0.012 $\pm$ 5%	15	100	2050	0.27	500
WFI-2520-15NJ	0.015 $\pm$ 5%	15	100	2000	0.29	480
WFI-2520-18NJ	0.018 $\pm$ 5%	15	100	1850	0.31	450
WFI-2520-22NJ	0.022 $\pm$ 5%	15	100	1650	0.37	420
WFI-2520-27NJ	0.027 $\pm$ 5%	15	100	1550	0.40	410
WFI-2520-33NJ	0.033 $\pm$ 5%	20	100	1450	0.42	400
WFI-2520-39NJ	0.039 $\pm$ 5%	20	100	1350	0.45	380
WFI-2520-47NJ	0.047 $\pm$ 5%	20	100	1200	0.50	360
WFI-2520-56NJ	0.056 $\pm$ 5%	20	100	1100	0.60	340
WFI-2520-68NJ	0.068 $\pm$ 5%	20	100	1050	0.65	320
WFI-2520-82NJ	0.082 $\pm$ 5%	20	100	900	0.75	300
WFI-2520-R10J	0.100 $\pm$ 5%	20	100	800	0.80	280
WFI-2520-R12J	0.120 $\pm$ 5%	30	25.2	700	0.30	550
WFI-2520-R15J	0.150 $\pm$ 5%	30	25.2	550	0.35	500
WFI-2520-R18J	0.180 $\pm$ 5%	30	25.2	500	0.40	460
WFI-2520-R22J	0.220 $\pm$ 5%	30	25.2	450	0.50	430
WFI-2520-R27J	0.270 $\pm$ 5%	30	25.2	425	0.55	420
WFI-2520-R33J	0.330 $\pm$ 5%	30	25.2	400	0.60	400
WFI-2520-R39J	0.390 $\pm$ 5%	30	25.2	375	0.65	375
WFI-2520-R47J	0.470 $\pm$ 5%	30	25.2	350	0.68	350
WFI-2520-R56J	0.560 $\pm$ 5%	30	25.2	325	0.75	325
WFI-2520-R68J	0.680 $\pm$ 5%	30	25.2	300	0.85	300
WFI-2520-R82J	0.820 $\pm$ 5%	30	25.2	260	1.00	260
WFI-2520-1R0J	1.00 $\pm$ 5%	30	7.96	245	1.10	245
WFI-2520-1R2J	1.20 $\pm$ 5%	30	7.96	230	1.20	230
WFI-2520-1R5J	1.50 $\pm$ 5%	30	7.96	182	1.30	220
WFI-2520-1R8J	1.80 $\pm$ 5%	30	7.96	135	1.45	210
WFI-2520-2R2J	2.20 $\pm$ 5%	30	7.96	105	1.55	200
WFI-2520-2R7J	2.70 $\pm$ 5%	30	7.96	70	1.70	195
WFI-2520-3R3J	3.30 $\pm$ 5%	30	7.96	55	1.90	185
WFI-2520-3R9J	3.90 $\pm$ 5%	30	7.96	48	2.10	180
WFI-2520-4R7J	4.70 $\pm$ 5%	30	7.96	43	2.30	175
WFI-2520-5R6J	5.60 $\pm$ 5%	25	7.96	42	2.50	170
WFI-2520-6R8J	6.80 $\pm$ 5%	25	7.96	39	2.70	165
WFI-2520-8R2J	8.20 $\pm$ 5%	25	7.96	36	3.05	160
WFI-2520-100J	10.00 $\pm$ 5%	25	2.52	33	3.50	155
WFI-2520-120J	12.00 $\pm$ 5%	25	2.52	30	3.80	150
WFI-2520-150J	15.00 $\pm$ 5%	25	2.52	26	4.40	140
WFI-2520-180J	18.00 $\pm$ 5%	25	2.52	24	4.80	130
WFI-2520-220J	22.00 $\pm$ 5%	25	2.52	22	5.50	125
WFI-2520-270J	27.00 $\pm$ 5%	25	2.52	21	6.30	115
WFI-2520-330J	33.00 $\pm$ 5%	25	2.52	20	7.10	110
WFI-2520-390J	39.00 $\pm$ 5%	20	2.52	18	9.50	90
WFI-2520-470J	47.00 $\pm$ 5%	20	2.52	17	11.10	80
WFI-2520-560J	56.00 $\pm$ 5%	20	2.52	16	12.10	75
WFI-2520-680J	68.00 $\pm$ 5%	20	2.52	15	16.60	70
WFI-2520-820J	82.00 $\pm$ 5%	20	2.52	13	19.00	66
WFI-2520-101J	100.00 $\pm$ 5%	15	0.796	12	21.00	60