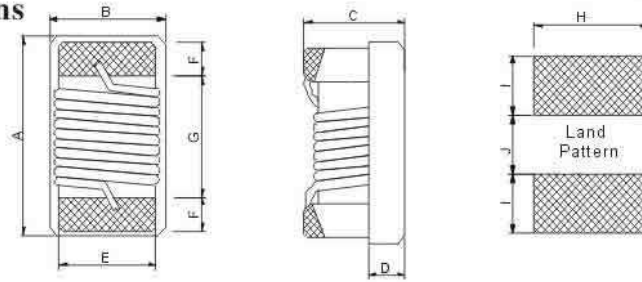




● Shapes and Dimensions (形状及尺寸)



UNIT:mm

F H	0 6 0 3	C S	- 1 R 8	J	-	R	-	S	-	L F
1	2				4			5		
SERIES NAME	DIMENSIONS	INDUCTANCE			TOLERANCE CODE			PACKING CODE		
					J: ±5%, K: ±10%, L: ±15% M: ±20%, P: ±25%, N: ±30%			R: Tape&Reel (卷装)		
品名	尺寸	电感值			公差			包装		

	A max	B max	C max	D ref	E	F	G	H	I	J
FN0402CS	1.19	0.70	0.66	0.25	0.51	0.23	0.56	0.66	0.36	0.46
FN0603CS	1.8	1.12	1.02	0.38	0.76	0.33	0.86	1.02	0.64	0.64
FN0805CS	2.29	1.73	1.52	0.51	1.27	0.51	1.02	1.78	1.02	0.76
FN1008CS	2.92	2.79	2.03	0.51	2.03	0.51	1.52	2.54	1.02	1.27

● Introduction And Application

Wire-wound chip inductors offer the best overall combination of low cost, close tolerance, better Q factor and high SRF than multilayer chip inductor which are widely used in communication and wireless application

For high-frequency application such as:

Mobile phones; wireless phones; cordless phones; PHS & 2.4GHz applications

● 描述及产品应用

绕线式晶片电感比积层式电感在通讯与无线通讯产品应用上提供更全面的低成本、感量公差小、高Q值与SRF值的组合。

手机、家用式无线电话、PHS与 2.4GHz的无线产品应用。

● Feature

High frequency applications

Close tolerance application. Tolerance of 2% is available for particular inductance values.

Small footprint as well as low profile

High Q factor

Available for custom values

Material available for ceramic or ferrite

● 特性

高频与低公差应用，最小感量公差可达到2%

角距小、高度低

高Q值

能提供客制产品

可以使用陶瓷与镍锌材质来进行绕制

● Test Equipment and Conditions

Inductance measured by using HP-4286A LCR meter with HP-16193A test fixture.

Q measured with HP-4291B impedance analyzer.

According to EIA-481 standard.

● 测试仪器和条件

电感量是藉由HP-4286A LCR测试仪与HP-16193A制具来进行测试。

Q值是藉由HP-4291B阻抗分析仪来进行测试。

包装符合EIA-481标准。



FN1008CS



Part Number ¹ 品名	Inductance ² (nH) 电感值	Tolerance ³ 公差	Q min ⁴ 品质因数	SRF min ⁵ (MHz) 自谐振频率	DCR ⁶ max (Ohms) 直流阻抗	I _{rms} ⁷ (mA) 额定电流	Color code 色码	Color code 色码	Color code 色码
FN1008CS-10NX_B_	10@ 50 MHz	10.5.2	50@ 500 MHz	4100	0.08	1000	Brown	Black	Black
FN1008CS-12NX_B_	12@ 50 MHz	10.5.2	50@ 500 MHz	3300	0.09	1000	Brown	Red	Black
FN1008CS-15NX_B_	15@ 50 MHz	10.5.2	50@ 500 MHz	2500	0.1	1000	Brown	Green	Black
FN1008CS-18NX_B_	18@ 50 MHz	10.5.2	50@ 350 MHz	2500	0.11	1000	Brown	Gray	Black
FN1008CS-22NX_B_	22@ 50 MHz	10.5.2	55@ 350 MHz	2400	0.12	1000	Red	Red	Black
FN1008CS-27NX_B_	27@ 50 MHz	10.5.2	55@ 350 MHz	1600	0.13	1000	Red	Violet	Black
FN1008CS-33NX_B_	33@ 50 MHz	10.5.2	60@ 350 MHz	1600	0.14	1000	Orange	Orange	Black
FN1008CS-39NX_B_	39@ 50 MHz	10.5.2	60@ 350 MHz	1500	0.15	1000	Orange	White	Black
FN1008CS-47NX_B_	47@ 50 MHz	10.5.2	65@ 350 MHz	1500	0.16	1000	Yellow	Violet	Black
FN1008CS-56NX_B_	56@ 50 MHz	10.5.2	65@ 350 MHz	1300	0.18	1000	Green	Blue	Black
FN1008CS-68NX_B_	68@ 50 MHz	10.5.2	65@ 350 MHz	1300	0.2	1000	Blue	Gray	Black
FN1008CS-82NX_B_	82@ 50 MHz	10.5.2	60@ 350 MHz	1000	0.22	1000	Gray	Red	Black
FN1008CS-R10X_B_	100@ 25 MHz	10.5.2	60@ 350 MHz	1000	0.56	650	Brown	Black	Brown
FN1008CS-R12X_B_	120@ 25 MHz	10.5.2	60@ 350 MHz	950	0.63	650	Brown	Red	Brown
FN1008CS-R15X_B_	150@ 25 MHz	10.5.2	45@ 100 MHz	850	0.7	580	Brown	Green	Brown
FN1008CS-R18X_B_	180@ 25 MHz	10.5.2	45@ 100 MHz	750	0.77	620	Brown	Gray	Brown
FN1008CS-R22X_B_	220@ 25 MHz	10.5.2	45@ 100 MHz	700	0.84	500	Red	Red	Brown
FN1008CS-R27X_B_	270@ 25 MHz	10.5.2	45@ 100 MHz	600	0.91	500	Red	Violet	Brown
FN1008CS-R33X_B_	330@ 25 MHz	10.5.2	45@ 100 MHz	570	1.05	450	Orange	Orange	Brown
FN1008CS-R39X_B_	390@ 25 MHz	10.5.2	45@ 100 MHz	500	1.12	470	Orange	White	Brown
FN1008CS-R47X_B_	470@ 25 MHz	10.5.2	45@ 100 MHz	450	1.19	470	Yellow	Violet	Brown
FN1008CS-R56X_B_	560@ 25 MHz	10.5.2	45@ 100 MHz	415	1.33	400	Green	Blue	Brown
FN1008CS-R62X_B_	620@ 25 MHz	10.5.2	45@ 100 MHz	375	1.4	300	Blue	Red	Brown
FN1008CS-R68X_B_	680@ 25 MHz	10.5.2	45@ 100 MHz	375	1.47	400	Blue	Gray	Brown
FN1008CS-R75X_B_	750@ 25 MHz	10.5.2	45@ 100 MHz	360	1.54	360	Violet	Green	Brown
FN1008CS-R82X_B_	820@ 25 MHz	10.5.2	45@ 100 MHz	350	1.61	400	Gray	Red	Brown
FN1008CS-R91X_B_	910@ 25 MHz	10.5.2	35@ 50 MHz	320	1.68	480	White	Brown	Brown
FN1008CS-1R0X_B_	1000@ 25 MHz	10.5.2	35@ 50 MHz	290	1.75	370	Brown	Black	Red
FN1008CS-1R2X_B_	1200@ 25 MHz	10.5.2	35@ 50 MHz	250	2.0	310	Brown	Red	Red
FN1008CS-1R5X_B_	1500@ 7.9 MHz	10.5.2	28@ 50 MHz	200	2.30	330	Brown	Green	Red
FN1008CS-1R8X_B_	1800@ 7.9 MHz	10.5.2	28@ 50 MHz	160	2.6	300	Brown	Gray	Red
FN1008CS-2R2X_B_	2200@ 7.9 MHz	10.5.2	28@ 50 MHz	160	2.80	280	Red	Red	Red
FN1008CS-2R7X_B_	2700@ 7.9 MHz	10.5.2	22@ 25 MHz	140	3.2	290	Red	Violet	Red
FN1008CS-3R3X_B_	3300@ 7.9 MHz	10.5.2	22@ 25 MHz	110	3.40	290	Orange	Orange	Red
FN1008CS-3R9X_B_	3900@ 7.9 MHz	10.5.2	20@ 25 MHz	100	3.6	260	Orange	White	Red
FN1008CS-4R7X_B_	4700@ 7.9 MHz	10.5.2	20@ 25 MHz	90	4.0	260	Yellow	Violet	Red
FN1008CS-5R6X_B_	5600@ 7.9 MHz	10.5.2	18@ 7.9 MHz	45	4.0	240	Green	Blue	Red
FN1008CS-6R8X_B_	6800@ 7.9 MHz	10.5.2	18@ 7.9 MHz	40	4.9	200	Blue	Gray	Red
FN1008CS-8R2X_B_	8200@ 7.9 MHz	10.5.2	18@ 7.9 MHz	25	6.0	170	Gray	Red	Red
FN1008CS-100X_B_	10000@ 2.52 MHz	10.5.2	18@ 7.9 MHz	25	8.0	150	Brown	Black	Orange

1. When ordering, please specify tolerance and packaging codes:

FN1008CS-68NJ-R-S-LF

Tolerance: G=2% J=5%

(Table show stock tolerances in bold.)

2. Inductance measured at 250 MHz using a Fenfa SMD-F test fixture and Fenfa-provided correlation pieces with an Agilent/HP4286 impedance analyzer.

3. Tolerances in bold are stocked for immediate shipment.

4. Q measured using an Agilent/HP 4291A with an Agilent/HP 4287A test fixture.

5. For SRF > 6GHz, measured using an Agilent/HP4287A network analyzer and a Coilcraft SMD-D test fixture. For SRF ≤ 6GHz, Measured using an Agilent/HP 4287A network analyzer and a Fenfa SMD-D test fixture.

6. DCR measured on a micro-ohmmeter.

7. Average current for a 15°C rise above 25°C ambient.

8. Operating temperature range: -25°C to +125°C.

9. Electrical specifications at 25°C

See Qualification Standards section for environmental and test data