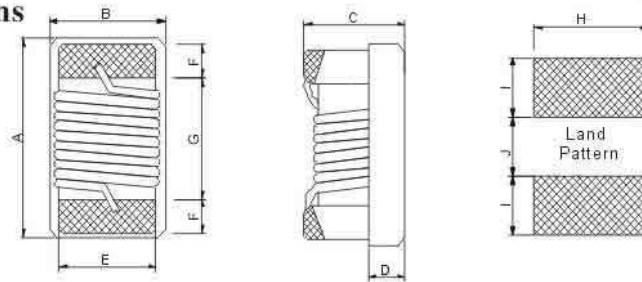




● Shapes and Dimensions (形状及尺寸)



UNIT:mm

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

	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。



FN0805CS



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) 自谐频率	DCR ⁶ max (Ohms) 直流阻抗	I _{rms} ⁷ (mA) 额定电流	Color code 色码
FN0805CS-2N8X_B_	2.8@ 250 MHz	20.10.5	80@ 1500 MHz	7900	0.06	800	Gray
FN0805CS-3N0X_B_	3.0@ 250 MHz	20.10.5	65@ 1500 MHz	7900	0.06	800	White
FN0805CS-3N3X_B_	3.3@ 250 MHz	20.10.5	50@ 1500 MHz	7900	0.08	600	Black
FN0805CS-5N6X_B_	5.6@ 250 MHz	20.10.5	65@ 1500 MHz	5500	0.08	600	Orange
FN0805CS-6N8X_B_	6.8@ 250 MHz	20.10.5	50@ 1500 MHz	5500	0.11	600	Brown
FN0805CS-7N5X_B_	7.5@ 250 MHz	20.10.5	50@ 1500 MHz	4500	0.14	600	Green
FN0805CS-8N2X_B_	8.2@ 250 MHz	20.10.5.2	50@ 1500 MHz	4700	0.12	600	Red
FN0805CS-100X_B_	10@ 250 MHz	20.10.5.2	60@ 1500 MHz	4200	0.1	600	Blue
FN0805CS-120X_B_	12@ 250 MHz	20.10.5.2	50@ 1500 MHz	4000	0.15	600	Orange
FN0805CS-150X_B_	15@ 250 MHz	20.10.5.2	50@ 1500 MHz	3400	0.17	600	Yellow
FN0805CS-180X_B_	18@ 250 MHz	20.10.5.2	50@ 1500 MHz	3300	0.2	600	Green
FN0805CS-220X_B_	22@ 250 MHz	20.10.5.2	50@ 1500 MHz	2600	0.22	500	Blue
FN0805CS-240X_B_	24@ 250 MHz	20.10.5.2	50@ 1500 MHz	2000	0.22	500	Gray
FN0805CS-270X_B_	27@ 250 MHz	20.10.5.2	55@ 1500 MHz	2500	0.25	500	Violet
FN0805CS-330X_B_	33@ 250 MHz	20.10.5.2	60@ 1500 MHz	2050	0.27	500	Gray
FN0805CS-360X_B_	36@ 250 MHz	20.10.5.2	55@ 1500 MHz	1700	0.27	500	Orange
FN0805CS-390X_B_	39@ 250 MHz	20.10.5.2	60@ 1500 MHz	2000	0.29	500	White
FN0805CS-430X_B_	43@ 200 MHz	20.10.5.2	60@ 1500 MHz	1650	0.34	500	Yellow
FN0805CS-470X_B_	47@ 200 MHz	20.10.5.2	60@ 1500 MHz	1650	0.31	500	Black
FN0805CS-560X_B_	56@ 200 MHz	10.5.2	60@ 1500 MHz	1550	0.34	500	Brown
FN0805CS-680X_B_	68@ 200 MHz	10.5.2	60@ 1500 MHz	1450	0.38	500	Red
FN0805CS-820X_B_	82@ 150 MHz	10.5.2	65@ 1500 MHz	1300	0.42	400	Orange
FN0805CS-910X_B_	91@ 150 MHz	10.5.2	65@ 1500 MHz	1200	0.48	400	Black
FN0805CS-101X_B_	100@ 150 MHz	10.5.2	65@ 1500 MHz	1200	0.46	400	Yellow
FN0805CS-111X_B_	110@ 150 MHz	20.10.5.2	50@ 1500 MHz	1000	0.48	400	Brown
FN0805CS-121X_B_	120@ 150 MHz	10.5.2	50@ 1500 MHz	1100	0.51	400	Green
FN0805CS-151X_B_	150@ 100 MHz	10.5.2	50@ 1500 MHz	920	0.56	400	Blue
FN0805CS-181X_B_	180@ 100 MHz	10.5.2	50@ 1500 MHz	870	0.64	400	Violet
FN0805CS-221X_B_	220@ 100 MHz	10.5.2	50@ 1500 MHz	850	0.7	400	Gray
FN0805CS-241X_B_	240@ 100 MHz	10.5.2	44@ 1500 MHz	690	1	350	Red
FN0805CS-271X_B_	270@ 100 MHz	10.5.2	48@ 1500 MHz	650	1	350	White
FN0805CS-331X_B_	330@ 100 MHz	10.5.2	48@ 1500 MHz	600	1.4	310	Black
FN0805CS-391X_B_	390@ 100 MHz	10.5.2	48@ 1500 MHz	560	1.5	290	Brown
FN0805CS-471X_B_	470@ 50 MHz	10.5.2	33@ 1500 MHz	375	1.76	250	Violet
FN0805CS-561X_B	560@ 25 MHz	10.5.2	23@ 1500 MHz	340	1.9	230	Orange
FN0805CS-681X_B_	680@ 25 MHz	10.5.2	23@ 1500 MHz	188	2.20	190	Green
FN0805CS-821X_B_	820@ 25 MHz	10.5.2	23@ 1500 MHz	215	2.35	180	Blue

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

FN0805CS-821J-R-S-LF

Tolerance: F=1% G=2% J=5%

(Table shows stock tolerances in bold.)

2. Inductance measured using a Fenfa SMD-A fixture in an Agilent/

HP 4286 impedance analyzer with Fenfa-provided correlation pieces. VV

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. SRF measured using an Agilent/HP 4287A network analyzer and a Fenfa SMD-D test fixture.

6. DCR measured on a Cambridge Technology micro-ohmmeter and a Fenfa CCF858 test fixture.

7. Average current for 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