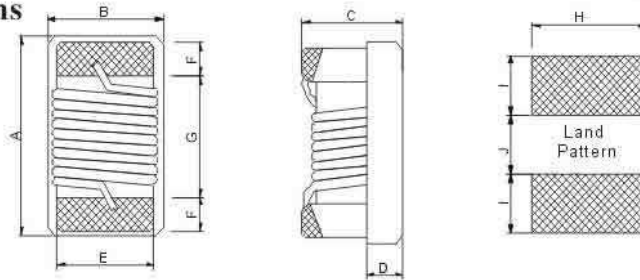




● Shapes and Dimensions (形状及尺寸)



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

	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。



FN0402CS



Part Number ¹ 品名	Inductance ² (nH) 电感值	Tolerance ³ 公差	900MHz		1.7GHz		SRF min ⁵ (MHz) 自谐频率	DCR ⁶ max (Ohms) 直流阻抗	I _{rms} ⁷ (mA) 额定电流
			Ltyp	Qtyp ⁴	Ltyp	Qtyp ⁴			
FN0402CS-1N0X_L_L	1.0	5	1.02	77	1.02	69	12.70	0.045	1360
FN0402CS-1N2X_L_L	1.2	5	1.17	28	1.17	38	12.90	0.09	740
FN0402CS-1N8X_L_L	1.8	5	1.78	54	1.78	75	12.00	0.07	1040
FN0402CS-1N9X_L_L	1.9	5	1.72	68	1.74	82	11.30	0.07	1040
FN0402CS-2N0X_L_L	2.0	5	1.93	54	1.93	75	11.10	0.07	1040
FN0402CS-2N2X_L_L	2.2	5	2.19	59	2.23	100	10.80	0.07	960
FN0402CS-2N4X_L_L	2.4	5	2.24	51	2.27	68	10.50	0.068	790
FN0402CS-2N7X_L_L	2.7	5	2.58	42	2.6	61	10.40	0.12	640
FN0402CS-3N3X_L_L	3.3	5.2	3.1	65	3.12	87	7.00	0.066	840
FN0402CS-3N6X_L_L	3.6	5.2	3.56	45	3.62	71	6.80	0.066	840
FN0402CS-3N9X_L_L	3.9	5.2	3.89	50	4	75	6.00	0.066	840
FN0402CS-4N3X_L_L	4.3	5.2	4.19	47	4.3	71	6.00	0.091	700
FN0402CS-4N7X_L_L	4.7	5.2	4.55	48	4.68	68	4.77	0.13	640
FN0402CS-5N1X_L_L	5.1	5.2	5.15	56	5.25	82	4.80	0.083	800
FN0402CS-5N6X_L_L	5.6	5.2	5.16	54	5.28	81	4.80	0.083	760
FN0402CS-6N2X_L_L	6.2	5.2	6.16	52	6.37	76	4.80	0.083	760
FN0402CS-6N8X_L_L	6.8	5.2	6.56	63	6.93	78	4.80	0.083	680
FN0402CS-7N5X_L_L	7.5	5.2	7.91	60	8.22	88	4.80	0.10	680
FN0402CS-8N2X_L_L	8.2	5.2	8.5	57	8.85	84	4.40	0.1	680
FN0402CS-8N7X_L_L	8.7	5.2	8.78	54	9.21	73	4.10	0.20	480
FN0402CS-9N0X_L_L	9.0	5.2	9.07	62	9.53	78	4.16	0.1	680
FN0402CS-9N5X_L_L	9.5	5.2	9.42	54	9.98	69	4.00	0.20	480
FN0402CS-10NX_L_L	10.0	5.2	9.8	50	10.1	67	3.90	0.20	480
FN0402CS-11NX_L_L	11.0	5.2	10.7	52	11.2	78	3.68	0.12	640
FN0402CS-12NX_L_L	12.0	5.2	11.9	53	12.7	71	3.60	0.12	640
FN0402CS-13NX_L_L	13.0	5.2	13.4	51	14.63	57	3.45	0.21	440
FN0402CS-15NX_L_L	15.0	5.2	14.6	55	15.5	77	3.28	0.17	560
FN0402CS-16NX_L_L	16.0	5.2	16.6	46	18.86	47	3.10	0.22	560
FN0402CS-18NX_L_L	18.0	5.2	18.3	57	20.28	62	3.10	0.23	420
FN0402CS-19NX_L	19.0	5.2	19.1	50	21.1	67	3.04	0.20	480
FN0402CS-20NX_L_L	20.0	5.2	20.7	52	23.66	53	3.00	0.25	420
FN0402CS-22NX_L_L	22.0	5.2	23.2	53	26.75	53	2.80	0.30	400
FN0402CS-23NX_L_L	23.0	5.2	23.8	49	26.9	64	2.72	0.30	400
FN0402CS-24NX_L_L	24.0	5.2	25.1	51	29.5	50	2.70	0.30	400
FN0402CS-27NX_L	27.0	5.2	28.7	49	33.5	63	2.48	0.30	400
FN0402CS-30NX_L_L	30.0	5.2	31.1	46	38.5	39	2.35	0.35	400
FN0402CS-33NX_L_L	33.0	5.2	34.9	31	41.74	32	2.35	0.40	400
FN0402CS-36NX_L_L	36.0	5.2	39.5	44	48.4	53	2.32	0.44	320
FN0402CS-39NX_L_L	39.0	5.2	41.7	47	50.23	45	2.10	0.55	200
FN0402CS-40NX_L	40.0	5.2	39.0	44	47.4	33	2.24	0.44	320
FN0402CS-43NX_L_L	43.0	5.2	45.8	46	61.55	34	2.03	0.81	100
FN0402CS-47NX_L_L	47.0	5.2	50.0	38	-	-	2.10	0.83	150
FN0402CS-51NX_L_L	51.0	5.2	56.6	40	-	-	1.75	0.82	100
FN0402CS-56NX_L_L	56.0	5.2	62.8	42	-	-	1.76	0.97	100
FN0402CS-68NX_L	68.0	5.2	78.2	36	-	-	1.62	1.12	100
FN0402CS-82NX_L_L	82.0	5.2	-	-	-	-	1.26	1.55	50
FN0402CS-R10X_L_L	100.0	5.2	-	-	-	-	1.16	2.00	30

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

FN0402CS-68NJ-R-S-LF

Tolerance: G=2% J=5%

(Table shows 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.