

FLLS series

SMD Wire Wound Ferrite Chip Inductors



◆ Features

- » RoHS Compliant.
- » Very strong solderability by reflow soldering and soldering iron
- » Highly accurate dimensions can be mounted automatically
- » Terminals are highly resistant to pull forces
- » Highly resistant to mechanical shocks and pressure
- » Highly reliable in environments of sudden temperature change and humidity
- » Low DCR & better Q value in ferrite series.

◆ Applications

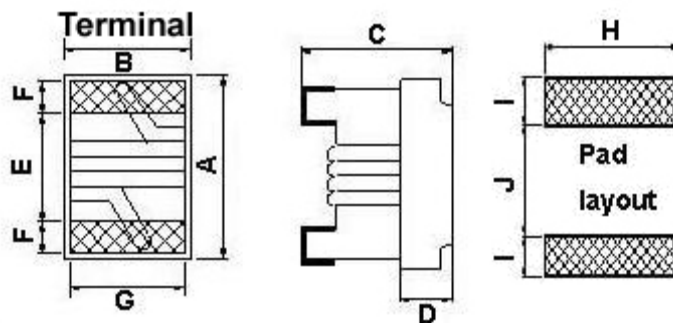
- » Telecom and datacom applications such as xDSL, Cable Modem, Set-top Box, CATV filter/tuner, wireless LAN and so on.

◆ Dimensions

» FLLS0603/0805/1008

Type	A Max	B Max	C Max	D	E	F	G	H	I	J
FLLS0603	1.80	1.25	1.02	0.38	0.86	0.33	0.76	1.02	0.64	0.64
FLLS0805	2.40	1.72	1.52	0.70	1.02	0.50	1.27	1.78	1.02	0.76
FLLS1008	2.99	2.50	2.20	0.70	1.52	0.51	2.03	2.54	1.02	1.27

Unit: mm



◆ **Part Number**

FLLS	0603	4R7	J	□
Type	Size	Inductance	Tolerance	Internal No.
FLLS	0603	47nH: 47N	K: ±10%	
	0805	72nH: 72N	J: ±5%	
	1008	220nH: R22		
		820nH: R82		
		3300nH: 3R3		
		6800nH: 6R8		
		100: 10000nH		

◆ Electrical Characteristics

» FLLS0603

Inductance (nH)	Tolerance (±%)	Q Min.	Test Frequency (MHz)	SRF (MHz) Min.	DC Resistance (Ω) Max.	IDC (mA) Max.
47	10 / 5	17	7.90	1700	0.075	1500
72	10 / 5	17	7.90	1700	0.12	1500
100	10 / 5	17	7.90	1600	0.13	1500
120	10 / 5	17	7.90	1350	0.15	1500
150	10 / 5	17	7.90	1350	0.15	1450
180	10 / 5	17	7.90	1150	0.15	1400
220	10 / 5	17	7.90	1050	0.16	1350
240	10 / 5	17	7.90	1050	0.19	1300
270	10 / 5	17	7.90	1050	0.30	1050
330	10 / 5	17	7.90	850	0.46	1200
390	10 / 5	17	7.90	810	0.51	1200
470	10 / 5	17	7.90	720	0.62	1050
560	10 / 5	17	7.90	600	0.44	850
680	10 / 5	17	7.90	600	0.52	850
780	10 / 5	17	7.90	460	0.83	850
820	10 / 5	17	7.90	480	0.69	750
1000	10 / 5	18	7.90	310	0.81	600
1200	10 / 5	17	7.90	270	0.87	550
1500	10 / 5	17	7.90	270	1.06	540
1800	10 / 5	17	7.90	230	1.10	520
2200	10 / 5	17	7.90	140	1.20	500
2700	10 / 5	17	7.90	105	1.50	480
3300	10 / 5	17	7.90	84	1.50	440
3900	10 / 5	17	7.90	80	1.60	430
4700	10 / 5	18	7.90	69	2.10	420
5600	10 / 5	18	7.90	65	2.60	400
6800	10 / 5	19	7.90	55	3.10	400
7800	10 / 5	17	7.90	47	3.50	400
8200	10 / 5	17	7.90	42	3.80	400
10000	10 / 5	19	7.90	40	4.80	300

a. Tolerance : J = ± 5% ; K = ± 10%

b. Operating Temperature : -25°C TO +105°C

c. IDC for Inductance drop 10% from its value without current

d. SRF measured using the HP4291A

e. DCR measured using the CH502BC/HP4338B

f. When ordering, please indicate the packaging codes and tolerance

◆ Electrical Characteristics

» FLLS0805

Inductance (nH)	Tolerance (±%)	Q Min.	Test Frequency (MHz)	SRF (MHz) Min.	DC Resistance (Ω) Max.	IDC (mA) Max.
78	10 / 5	19	7.90	1440	0.06	2000
110	10 / 5	19	7.90	1200	0.07	2000
470	10 / 5	19	7.90	480	0.40	800
680	10 / 5	20	7.90	480	0.40	800
1000	10 / 5	20	7.90	400	0.69	700
1500	10 / 5	20	7.90	330	0.83	700
1800	10 / 5	20	7.90	300	1.00	650
2200	10 / 5	20	7.90	250	1.10	650
2700	10 / 5	23	7.90	200	1.25	650
3300	10 / 5	23	7.90	160	1.45	650
3900	10 / 5	23	7.90	90	1.50	600
4700	10 / 5	20	7.90	70	1.60	530
5600	10 / 5	20	7.90	65	1.70	500
6800	10 / 5	20	7.90	45	1.95	470
8200	10 / 5	16	2.50	45	2.10	450
10000	10 / 5	16	2.50	40	2.40	400
12000	10 / 5	16	2.50	38	3.20	360
15000	10 / 5	16	2.50	35	3.55	350
18000	10 / 5	16	2.50	25	4.90	300
22000	10 / 5	16	2.50	20	5.45	270
27000	10 / 5	16	2.50	19	7.80	240
47000	10 / 5	16	2.50	15	14.5	180

- a. Tolerance : J = ± 5% ; K = ± 10%
- b. Operating Temperature : -25°C TO +105°C
- c. IDC for Inductance drop 10% from its value without current
- d. SRF measured using the HP4291A
- e. DCR measured using the CH502BC/HP4338B
- f. When ordering, please indicate the packaging codes and tolerance

» FLLS1008

Inductance (nH)	Tolerance (±%)	Q Min.			Test Frequency (MHz)	SRF (MHz) Min.	DC Resistance (Ω) Max.	IDC (mA) Max.
		50MHz	25MHz	7.9MHz				
1000	10 / 5	55	47	35	7.90	350	0.50	1200
1500	10 / 5	58	53	38	7.90	300	0.65	1200
1800	10 / 5	54	47	34	7.90	280	0.75	1050
2200	10 / 5	48	43	34	7.90	250	0.90	950
2700	10 / 5	51	49	38	7.90	200	1.00	950
3300	10 / 5	58	57	42	7.90	200	1.15	900
3900	10 / 5	47	46	37	7.90	170	1.25	850
4700	10 / 5	38	43	37	7.90	130	1.35	700
5600	10 / 5	29	40	36	7.90	110	1.45	700
6800	10 / 5	33	39	33	7.90	105	1.60	600
8200	10 / 5	28	43	40	2.50	90	1.80	550
10000	10 / 5	25	41	40	2.50	85	2.40	500

a. Tolerance : J = ± 5% ; K = ± 10%

b. Operating Temperature : -25°C TO +105°C

c. IDC for Inductance drop 10% from its value without current

d. SRF measured using the HP4291A

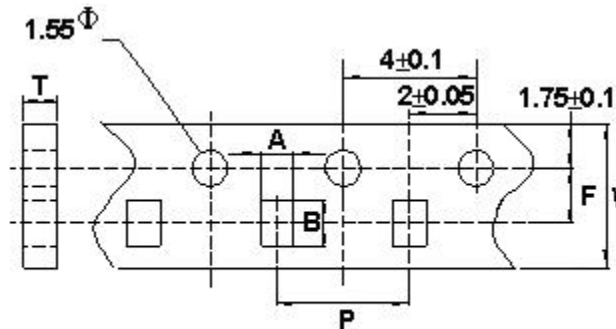
e. DCR measured using the CH502BC/HP4338B

f. When ordering, please indicate the packaging codes and tolerance

◆ Packing

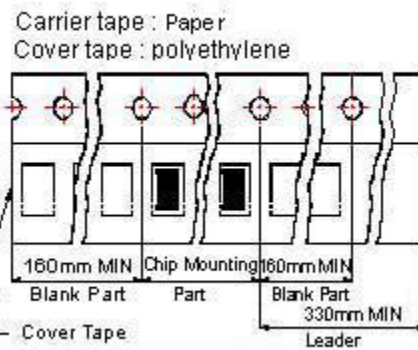
Tape Dimensions

Figure A



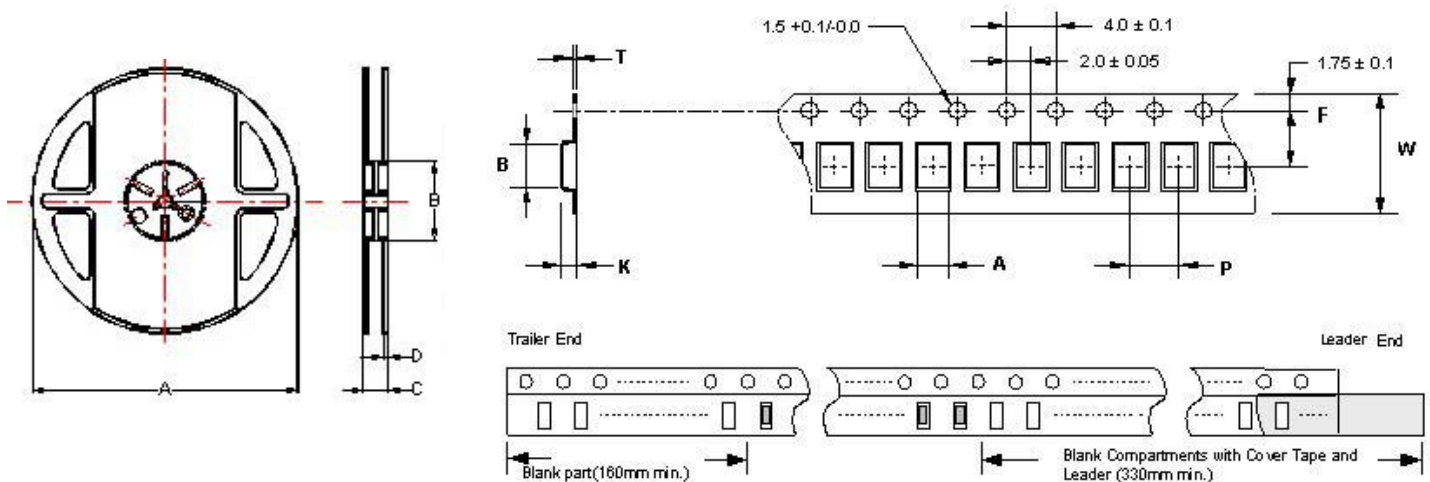
Tape Material

Figure A



Reel Dimensions

Figure B



Dimensions

TYPE	Tape Dimensions (mm)							Reel Dimensions (mm)				Quantity Pcs/Reel
	A	B	T	W	P	F	K	A	B	C	D	
FLLS0603	1.30	2.00	1.05	8	4	3.5	-	178	60	12	1.5	4000
FLLS0805	1.60	2.42	0.22	8	4	3.5	1.45	178	60	12	1.5	2000
FLLS1008	2.61	2.93	0.26	8	4	3.5	2.25	178	60	12	1.5	2000

All product specification and data are subject to change without notice.