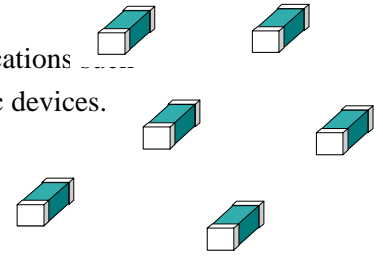


# THIN FILM CHIP INDUCTORS SFI SERIES

## Introductions

The SFI series is thin film chip inductors widely used in the communication applications as cellular phones, cable modem, ADSL, repeaters, Bluetooth, and other electronic devices.



## Features

- \* Operating temperature -55 °C to +125 °C.
- \* Excellent solderability and resistance to soldering heat .
- \* Suitable for flow and reflow soldering..
- \* JIS/EIA dimensions, high reliability, and easy surface mount assembly.
- \* Wide range of inductance values are available for flexible needs.
- \* Consisting of 0402 and 0603 sizes.

## Part Number Code

**SFI 0603 C T 33N J**

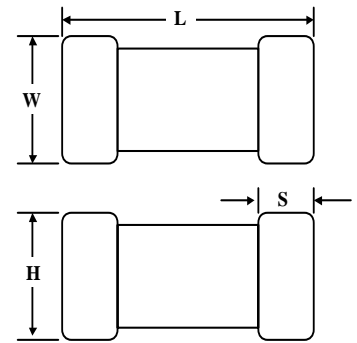
---

INTERNAL  
1 2 3 TAPING 4 5 CODE

1 Product Type

2 Chip Dimension

Size (inch) mm	Length (L) (inch) mm	Width (W) (inch) mm	Thickness (H) (inch) mm	Terminal (S) (inch) mm
SFI 0402 100505	(0.039 ± 0.004) 1.00 ± 0.10	(0.020 ± 0.004) 0.50 ± 0.10	(0.020 ± 0.004) 0.50 ± 0.10	(0.008 ± 0.004) 0.20 ± 0.10
SFI 0603 160808	(0.063 ± 0.008) 1.60 ± 0.20	(0.031 ± 0.008) 0.80 ± 0.20	(0.031 ± 0.008) 0.80 ± 0.20	(0.012 ± 0.004) 0.30 ± 0.10



3 Material Type

C : Ceramic Material

4 Inductance Value

3N3 = 3.3 nH

33N = 33 nH

R33 = 330 nH

5 Tolerance

S = ± 0.3 nH

D = ± 0.5nH

J = ± 5 %

Specification								
Part No.	Inductance <sup>1</sup> (nH)	Percent Tolerance	Q <sup>2</sup>		Test Freq. (MHZ)	S.R.F. <sup>3</sup> Min (GHZ)	RDC <sup>4</sup> Max (OHM)	IDC <sup>5</sup> Max (MA)
			Min	Typical				
			100MHz	1000MHz				
SFI 0402 CT 1N0	1.0	S	5	24	100	12	0.10	300
SFI 0402 CT 1N2	1.2	S	5	26	100	11	0.15	300
SFI 0402 CT 1N5	1.5	S	6	28	100	9.5	0.16	300
SFI 0402 CT 1N8	1.8	S	6	29	100	8.5	0.20	300
SFI 0402 CT 2N2	2.2	S	6	29	100	8	0.21	300
SFI 0402 CT 2N7	2.7	S	6	30	100	7.5	0.23	300
SFI 0402 CT 3N3	3.3	S	7	32	100	7	0.25	300
SFI 0402 CT 3N9	3.9	S	7	30	100	6.5	0.28	300
SFI 0402 CT 4N7	4.7	S	7	31	100	6	0.32	300
SFI 0402 CT 5N6	5.6	D	7	31	100	5.7	0.35	300
SFI 0402 CT 6N8	6.8	D	7	31	100	5.5	0.38	300
SFI 0402 CT 8N2	8.2	D	7	31	100	5	0.42	300
SFI 0402 CT 10N	10	J	7	31	100	4.7	0.45	200
SFI 0402 CT 12N	12	J	7	32	100	4.3	0.50	200
SFI 0402 CT 15N	15	J	7	30	100	4	0.55	200
SFI 0402 CT 18N	18	J	7	30	100	3.7	0.65	200
SFI 0402 CT 22N	22	J	7	30	100	3.5	0.75	200
SFI 0402 CT 27N	27	J	7	28	100	3	0.95	200
SFI 0402 CT 33N	33	J	7	27	100	2.5	1.10	200
SFI 0402 CT 39N	39	J	6	27	100	2	1.20	100
SFI 0402 CT 47N	47	J	6	26	100	1.8	1.30	100
SFI 0402 CT 56N	56	J	6	25	100	1.5	1.40	100
SFI 0402 CT 68N	68	J	6	23	100	1.2	1.60	100
SFI 0402 CT 82N	82	J	6	20	100	1	1.80	50
SFI 0402 CT R10	100	J	6	20	100	0.8	2.20	50

1. Inductance is measured in HP-4291B impedance analyzer with HP-16192 fixture.

2. Q is measured in HP-4291B impedance analyzer with HP-16192 fixture.

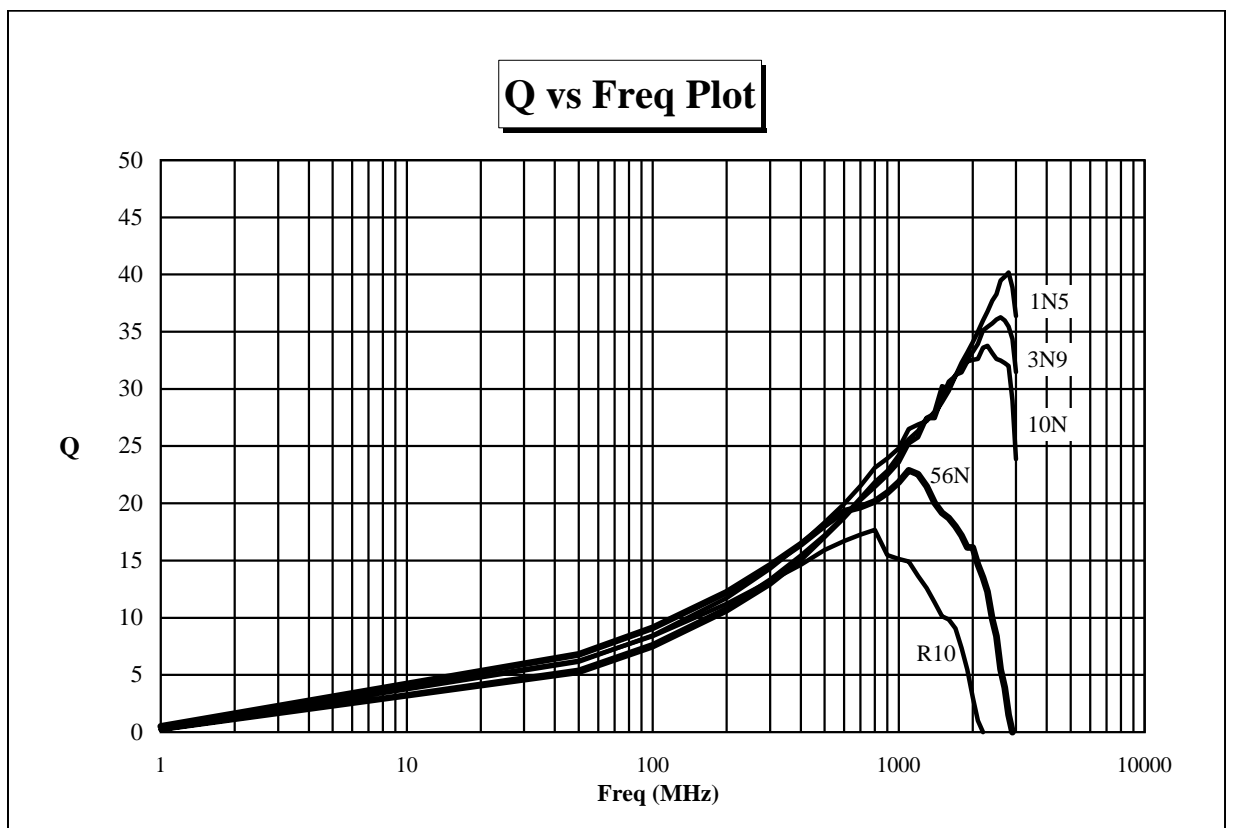
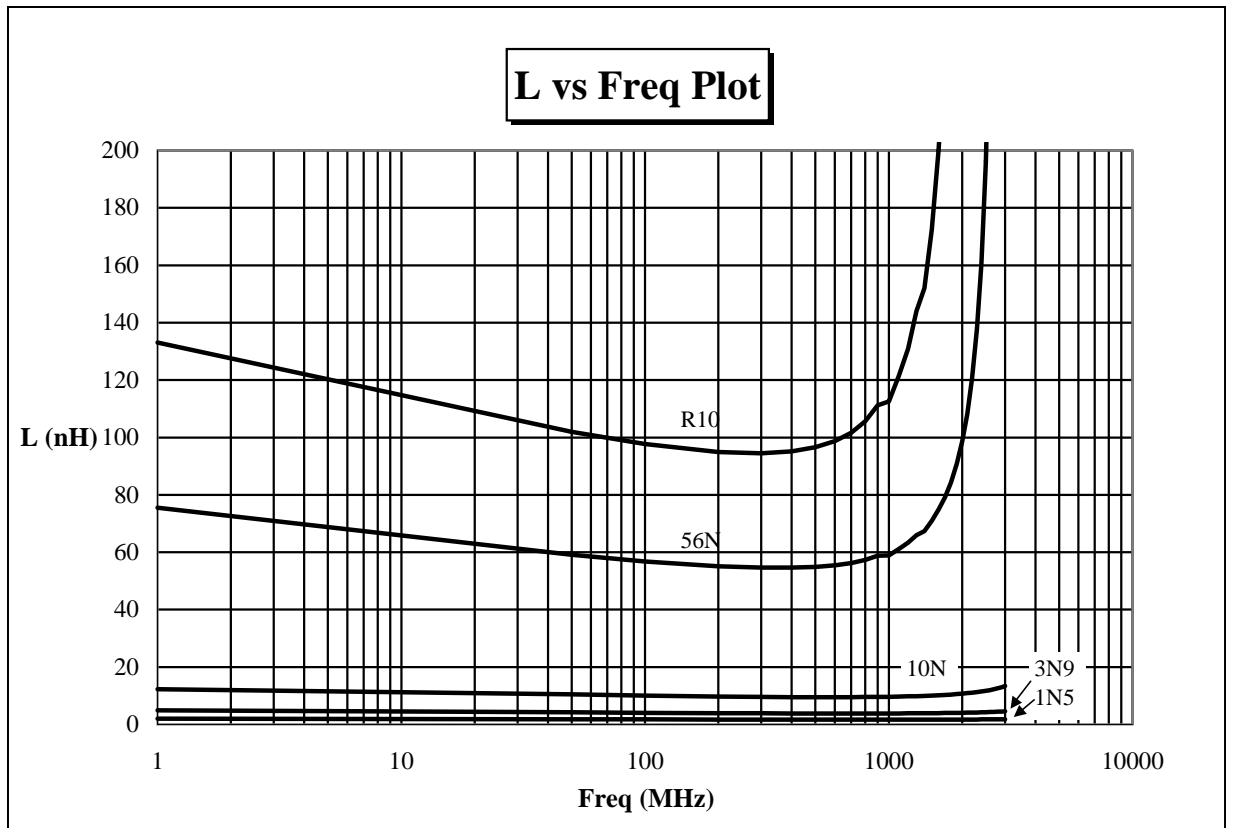
3. SRF is measured in HP-8753E RF network analyzer.

4. RDC is measured in HP-4338B milliohmeter.

5. For 20 °C Rise.

# CHIP INDUCTOR THIN FILM TYPE

## SFI 0402 (1005) CERAMIC TYPE

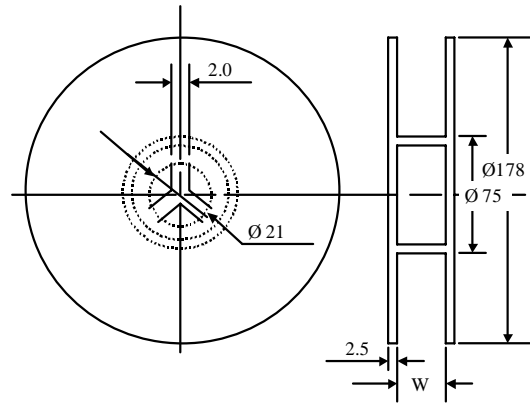


# PACKING INFORMATION

## Packing Quantity

Type	Pcs / Reel
SFI 0402	10,000
SFI 0603	4,000

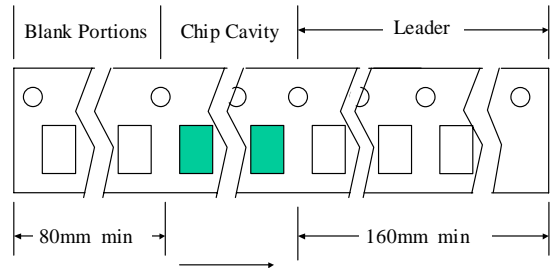
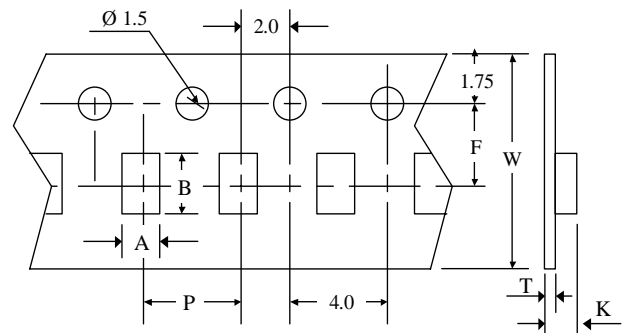
## Reel Dimensions



## Tape Dimensions (Unit:m/m)

Type	Chip Cavity		Insert Pitch		Tape Thickness		Tape Width
	A	B	P	F	K	T	W
SFI 0402	0.70	1.20	2.00	3.50	-	0.70	8.00
SFI 0603	1.00	1.80	4.00	3.50	1.00	0.20	8.00

## Tape Dimensions



Direction of tape feed

## Pattern Dimensions (Unit:m/m)

Type	A	B	C
SFI 0402	1.40	0.40	0.50
SFI 0603	2.10	0.70	0.70

## Recommended Pattern

