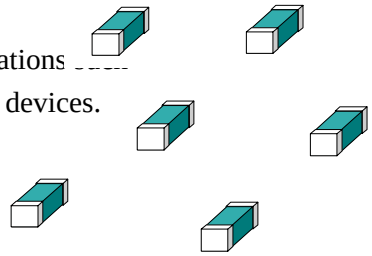
THIN FILM CHIP INDUCTORS SFI SERIES

Introductions



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

Features

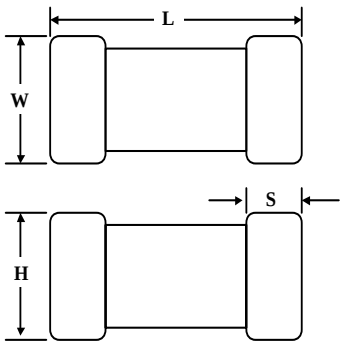
* Operating temperature -55 ^{o}C to +125 ^{o}C.
* Excellent solderability and resistance to soldering heat .
* Suitable for flow and reflow soldering..
* JIS/EIA dimensions, high reliability, and easy surface mount assembly.
* Wide range of inductance values are available for flexible needs.
* Consisting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

CHIP INDUCTOR
THIN FILM TYPE

SFI 0603 (1608) CERAMIC SERIES

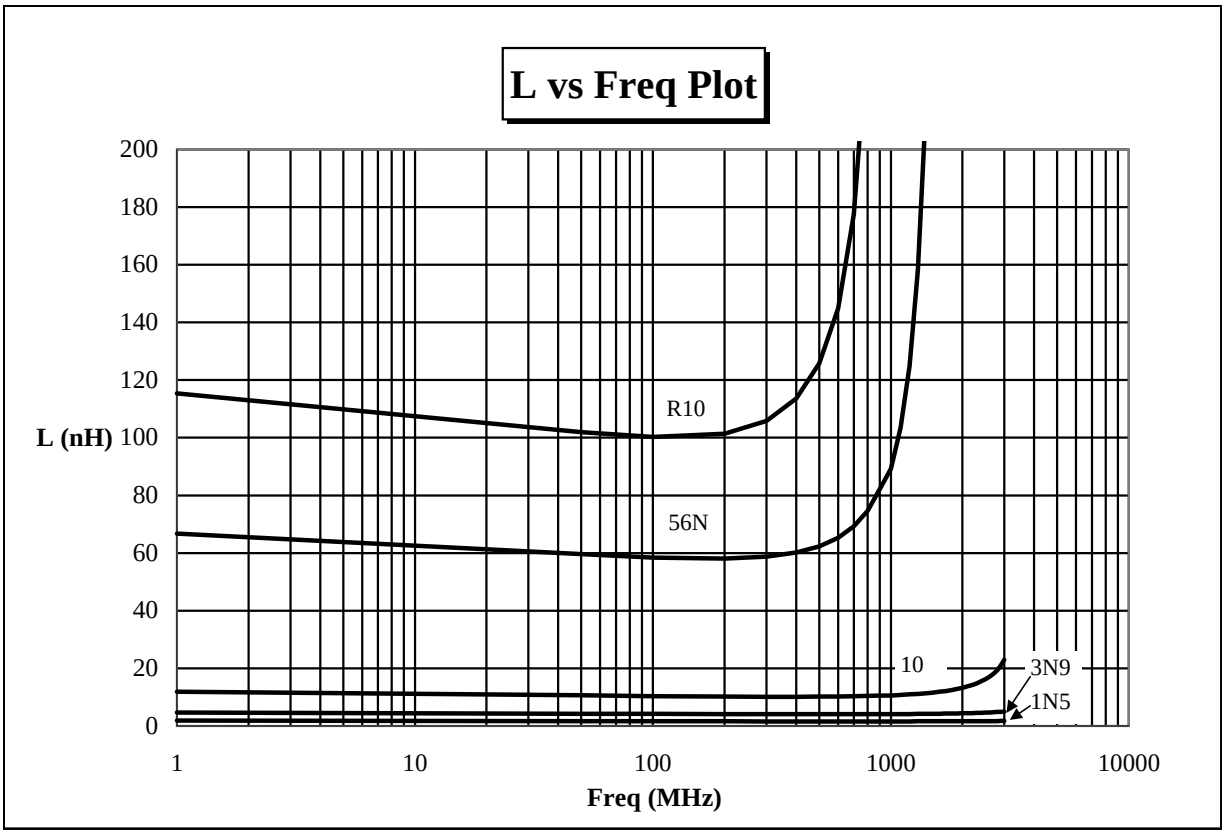
Specification

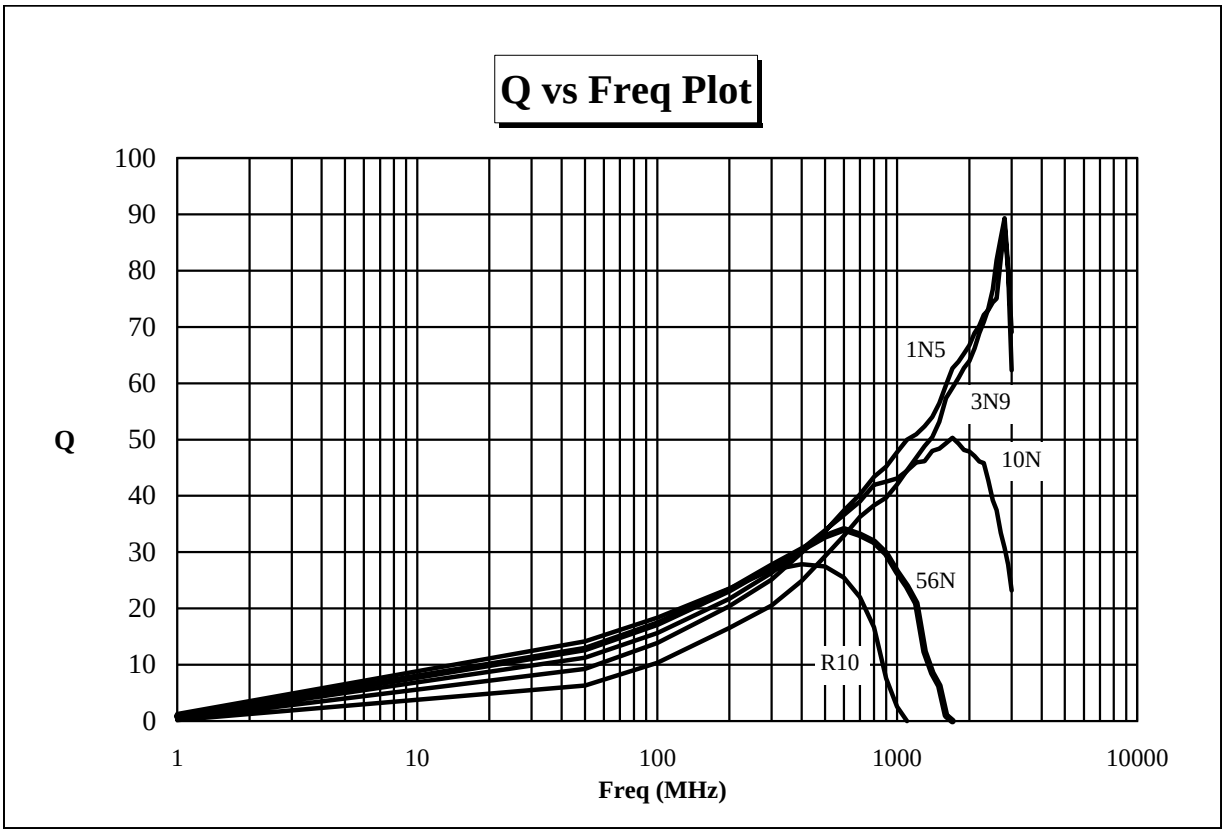
Part No.	Inductance [1] (nH)	Percent Tolerance	Q [2] Min 100MHz	Test Freq. (MHZ)	S.R.F. [3] Min (GHZ)	RDC [4] Max (OHM)	IDC [5] Max (MA)
SFI 0603 CT 1N0 □□□	1.0	**S**	8	100	10	0.10	600
SFI 0603 CT 1N2 □□□	1.2	**S**	8	100	10	0.10	600
SFI 0603 CT 1N5 □□□	1.5	**S**	8	100	10	0.10	600
SFI 0603 CT 1N8 □□□	1.8	**S**	8	100	9.8	0.10	600
SFI 0603 CT 2N2 □□□	2.2	**S**	10	100	7.6	0.15	600
SFI 0603 CT 2N7 □□□	2.7	**S**	10	100	7	0.15	600
SFI 0603 CT 3N3 □□□	3.3	**S**	10	100	6.2	0.20	600
SFI 0603 CT 3N9 □□□	3.9	**S**	10	100	5.6	0.20	600
SFI 0603 CT 4N7 □□□	4.7	**S**	10	100	4.8	0.20	600
SFI 0603 CT 5N6 □□□	5.6	**D**	10	100	4.6	0.20	600
SFI 0603 CT 6N8 □□□	6.8	**D**	10	100	4.2	0.20	600
SFI 0603 CT 8N2 □□□	8.2	**D**	10	100	3.6	0.25	600
SFI 0603 CT 10N □□□	10	**J**	12	100	3.2	0.25	600
SFI 0603 CT 12N □□□	12	**J**	12	100	2.8	0.30	600
SFI 0603 CT 15N □□□	15	**J**	12	100	2.6	0.35	600
SFI 0603 CT 18N □□□	18	**J**	12	100	2.4	0.40	600
SFI 0603 CT 22N □□□	22	**J**	12	100	2	0.50	500
SFI 0603 CT 27N □□□	27	**J**	12	100	1.9	0.55	500
SFI 0603 CT 33N □□□	33	**J**	12	100	1.6	0.60	500
SFI 0603 CT 39N □□□	39	**J**	12	100	1.4	0.65	400
SFI 0603 CT 47N □□□	47	**J**	14	100	1.2	0.70	400
SFI 0603 CT 56N □□□	56	**J**	14	100	1	0.75	400
SFI 0603 CT 68N □□□	68	**J**	14	100	0.9	0.80	300
SFI 0603 CT 82N □□□	82	**J**	14	100	0.8	0.90	300
SFI 0603 CT R10 □□□	100	**J**	14	100	0.7	1.00	300
SFI 0603 CT R12 □□□	120	**J**	14	100	0.6	1.20	300
SFI 0603 CT R15 □□□	150	**J**	14	100	0.5	1.30	250
SFI 0603 CT R18 □□□	180	**J**	14	100	0.4	1.40	250
SFI 0603 CT R22 □□□	220	**J**	14	100	0.4	1.70	200
SFI 0603 CT R27 □□□	270	**J**	14	100	0.35	2.00	200

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-8720E RF network analyzer.
4. RDC is measured in HP-4338B millohmeter.
5. For 20 °C Rise.

CHIP INDUCTOR THIN FILM TYPE

SFI 0603 (1608) CERAMIC TYPE



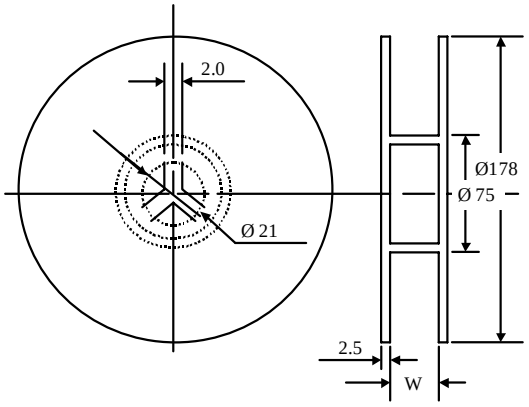


PACKING INFORMATION

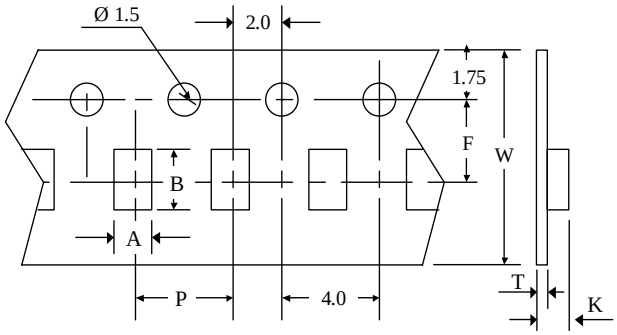
Packing Quantity

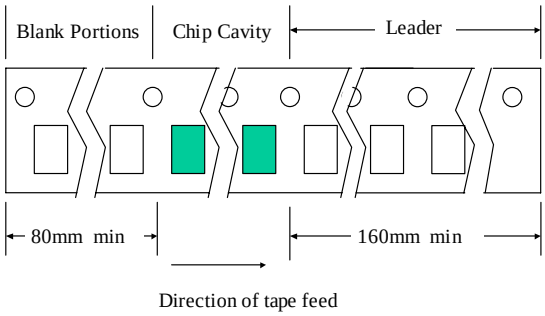
Type	Pcs / Reel
SFI 0402	10,000
SFI 0603	4,000

Reel Dimensions



Tape 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

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