

LLV0603-FH Series

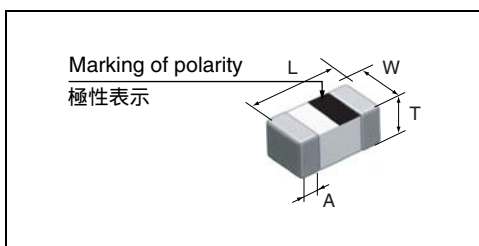
Inductance Range: 1.0 ~ 10nH (E-24 Series), 10~56nH (E-12 Series)、個別対応品 order production available (0.6nH, 0.7nH, 0.8nH, 0.9nH, 1.1nH, 1.3nH, 1.6nH, 2.0nH, 2.4nH, 3.0nH, 3.6nH, 4.3nH, 5.1nH, 6.2nH, 7.5nH, 9.1nH)

Temperature Coefficient of L: + 250ppm/°C (for reference only)

FEATURES / 特長

- Compact and light weight: 0.6×0.3×0.3mm, 0.4mg or less
- 10% improvement in Q value over previous model
- RoHS compliant
- 小型・軽量 : 0.6×0.3×0.3mm、重さ : 0.4mg以下
- 従来比、Qを10%向上
- RoHS指令対応

DIMENSIONS / 外形寸法図



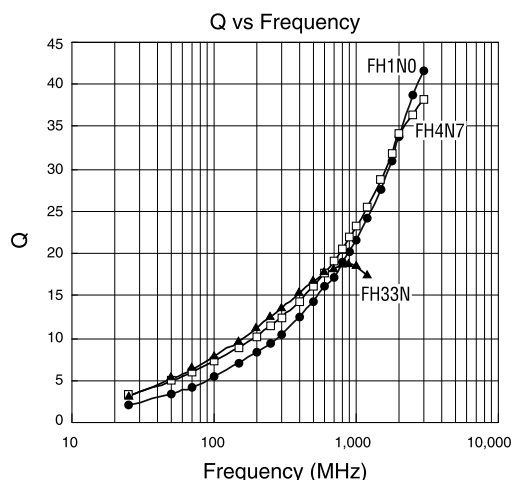
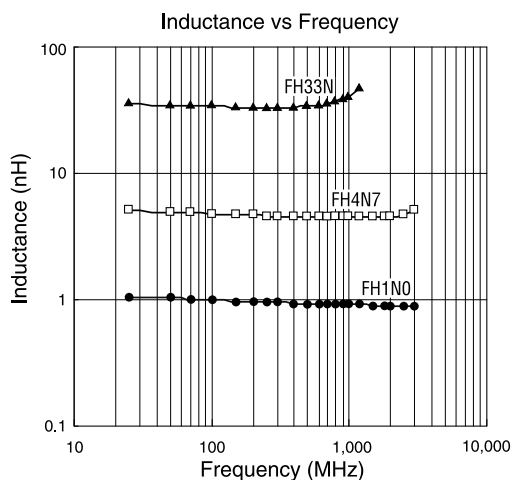
Length L (mm)	Width W (mm)	Thickness T (mm)	Electrode width A (mm)
0.6 ± 0.03	0.3 ± 0.03	0.3 ± 0.03	0.1 ~ 0.2

- **Marking of polarity:** Marking is on the upper Surface of the unit.
- **極性表示:** 磁束方向を示します。この表示が、常に上を向くようにテーピングされています。

ELECTRICAL CHARACTERISTICS / 電気的特性

- | | | | |
|---|---|---------------------|---|
| • Inductance Range | 1.0~10nH (E-24 Series)
10~56nH (E-12 Series) | • インダクタンス範囲 | 1.0 ~ 10nH (E-24 Series)
10 ~ 56nH (E-24 Series) |
| • Inductance Tolerance | S ; ±0.3nH (1.0~5.6nH)
J ; ±5% (6.8~56nH) | • インダクタンス許容差 | S級 ; ±0.3nH (1.0 ~ 5.6nH)
J級 ; ±5% (6.8 ~ 56nH) |
| • Q (Typical) | 6~8 (at 100MHz)
12~21 (at 800MHz) | • Q (Typical) | 6 ~ 8 (at 100MHz)
12 ~ 21 (at 800MHz) |
| • S.R.F. (for reference only) | 1.0~13GHz or more | • 自己共振周波数 (参考値) | 1.0 ~ 13GHz以上 |
| • Rated Current | 50~300mA | • 許容電流値 | 50 ~ 300mA |
| • Inductance Temperature Coefficient (for reference only) | +250ppm/°C | • インダクタンス温度係数 (参考値) | + 250ppm/ |
| • Operating Temperature Range | -55°C~+125°C | • 使用温度範囲 | - 55 ~ + 125 |
| • Storage Temperature Range | -55°C~+125°C | • 保存温度範囲 | - 55 ~ + 125 |

EXAMPLES OF CHARACTERISTICS / 代表特性例



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TOKO STANDARD PART NUMBERS / 東光 標準品一覧
LLV0603-FH Series (Quantity/reel; 15,000 PCS)

TOKO Part number	Inductance & Tolerance 100MHz	Q Min. 100 MHz	Q Typical							S.R.F. (MHz) Min.	R _{DC} (Ω) Max.	R _{DC} (Ω) Typ.	I _{DC} (mA) Max.
			100 MHz	300 MHz	500 MHz	800 MHz	1000 MHz	1800 MHz	2400 MHz				
* LLV0603-FH0N6	(0.6nH)	(3.5)	-	-	-	-	-	-	(13000)	(0.12)	-	(300)	
* LLV0603-FH0N7	(0.7nH)	(3.5)	-	-	-	-	-	-	(13000)	(0.12)	-	(300)	
* LLV0603-FH0N8	(0.8nH)	(3.5)	-	-	-	-	-	-	(13000)	(0.12)	-	(300)	
* LLV0603-FH0N9	(0.9nH)	(3.5)	-	-	-	-	-	-	(13000)	(0.12)	-	(300)	
LLV0603-FH1N0S	1.0±0.3nH	4.0	6.0	11.0	14.0	19.0	22.0	31.0	38.0	13000	0.14	0.06	300
* LLV0603-FH1N1S	1.1±0.3nH	4.0	6.0	11.0	14.0	19.0	22.0	31.0	38.0	13000	0.14	0.07	300
LLV0603-FH1N2S	1.2±0.3nH	4.0	6.0	11.0	14.0	19.0	22.0	31.0	38.0	13000	0.14	0.08	300
* LLV0603-FH1N3S	1.3±0.3nH	4.0	6.0	11.0	14.0	19.0	22.0	31.0	38.0	13000	0.16	0.09	300
LLV0603-FH1N5S	1.5±0.3nH	4.0	6.0	11.0	14.0	19.0	21.0	30.0	37.0	11000	0.16	0.10	300
* LLV0603-FH1N6S	1.6±0.3nH	4.0	6.0	11.0	14.0	19.0	22.0	31.0	37.0	8500	0.18	0.10	300
LLV0603-FH1N8S	1.8±0.3nH	4.5	6.0	11.0	15.0	19.0	22.0	31.0	37.0	8500	0.18	0.10	300
* LLV0603-FH2N0S	2.0±0.3nH	4.5	6.0	11.0	15.0	19.0	22.0	31.0	37.0	8500	0.20	0.10	250
LLV0603-FH2N2S	2.2±0.3nH	5.0	6.0	11.0	15.0	19.0	22.0	31.0	36.0	8500	0.20	0.15	250
* LLV0603-FH2N4S	2.4±0.3nH	5.0	7.0	12.0	15.0	20.0	23.0	32.0	37.0	7000	0.23	0.15	250
LLV0603-FH2N7S	2.7±0.3nH	5.0	7.0	12.0	15.0	20.0	23.0	32.0	38.0	6000	0.23	0.15	250
* LLV0603-FH3N0S	3.0±0.3nH	5.0	7.0	12.0	16.0	20.0	23.0	32.0	38.0	5000	0.25	0.15	250
LLV0603-FH3N3S	3.3±0.3nH	5.0	7.0	12.0	16.0	20.0	23.0	32.0	38.0	5000	0.25	0.15	250
* LLV0603-FH3N6S	3.6±0.3nH	5.0	7.0	12.0	16.0	20.0	23.0	32.0	38.0	5000	0.28	0.15	250
LLV0603-FH3N9S	3.9±0.3nH	5.0	7.0	12.0	16.0	20.0	23.0	32.0	38.0	5000	0.28	0.15	250
* LLV0603-FH4N3S	4.3±0.3nH	5.0	7.0	12.0	16.0	20.0	23.0	32.0	37.0	4000	0.30	0.20	250
LLV0603-FH4N7S	4.7±0.3nH	5.5	7.0	12.0	16.0	20.0	23.0	32.0	36.0	4000	0.30	0.20	250
* LLV0603-FH5N1S	5.1±0.3nH	5.5	7.0	12.0	16.0	20.0	23.0	32.0	35.0	4000	0.35	0.20	220
LLV0603-FH5N6S	5.6±0.3nH	6.0	7.0	12.0	16.0	20.0	22.0	31.0	34.0	4000	0.35	0.25	220
* LLV0603-FH6N2S	6.2±0.3nH	6.0	7.0	12.0	16.0	20.0	22.0	31.0	34.0	3500	0.40	0.25	220
LLV0603-FH6N8J	6.8nH±5%	6.0	7.0	12.0	16.0	20.0	22.0	30.0	33.0	3500	0.40	0.25	220
* LLV0603-FH7N5J	7.5nH±5%	6.0	8.0	12.0	16.0	20.0	22.0	30.0	32.0	3000	0.50	0.30	220
LLV0603-FH8N2J	8.2nH±5%	6.0	8.0	12.0	16.0	20.0	22.0	29.0	30.0	3000	0.50	0.30	220
* LLV0603-FH9N1J	9.1nH±5%	6.0	8.0	12.0	16.0	20.0	23.0	29.0	28.0	2500	0.55	0.35	220
LLV0603-FH10NJ	10nH±5%	6.0	8.0	12.0	16.0	20.0	23.0	28.0	27.0	2500	0.60	0.40	220
LLV0603-FH12NJ	12nH±5%	6.0	8.0	13.0	17.0	21.0	23.0	27.0	25.0	2500	0.65	0.40	180
LLV0603-FH15NJ	15nH±5%	6.0	8.0	13.0	16.0	20.0	22.0	24.0	18.0	2000	0.75	0.50	180
LLV0603-FH18NJ	18nH±5%	6.5	8.0	13.0	16.0	19.0	21.0	21.0	13.0	2000	0.85	0.55	150
LLV0603-FH22NJ	22nH±5%	7.0	8.0	14.0	17.0	20.0	22.0	22.0	-	2000	1.70	1.00	100
LLV0603-FH27NJ	27nH±5%	7.0	8.0	14.0	17.0	20.0	21.0	-	-	1700	1.80	1.10	50
LLV0603-FH33NJ	33nH±5%	7.0	8.0	14.0	17.0	19.0	20.0	-	-	1400	2.00	1.40	50
LLV0603-FH39NJ	39nH±5%	6.0	7.0	12.0	14.0	15.0	14.0	-	-	1300	2.30	1.60	50
LLV0603-FH47NJ	47nH±5%	6.0	7.0	12.0	14.0	13.0	11.0	-	-	1100	2.70	1.80	50
LLV0603-FH56NJ	56nH±5%	5.0	7.0	11.0	12.0	12.0	-	-	-	1000	3.00	2.10	50

注：(1)インダクタンス値及び許容差(C級±0.2nH, T級±3%)もご要望により用意いたします。
(2)*印の品番は個別対応品です。サンプルキット等には入っておりませんので品番毎にご要求下さい。

Note: (1)Add tolerance to part number; C = ±0.2nH, T = ±3%,

(2)*Sign shows the order production product number. Please demand each product number because it is not a regular product number of the sample kit.

Test Equipment & note

(測定器 / 注意事項)

- L, Q : RF Impedance Analyzer 4291A/B (Agilent Technologies), Test Fixture 16196C (Agilent Technologies)
- Q at 2400MHz : RF Impedance Analyzer E4991A (Agilent Technologies), Test Fixture 16196C (Agilent Technologies)
- S.R.F. / 自己共振周波数 : Network Analyzer 8719D,8720D (Agilent Technologies)
- R_{DC} / 直流抵抗 : Milliohmmeter 4338A/B (Agilent Technologies)
- Operating temperature range / 使用温度範囲 : -55°C~+125°C
- Storage temperature range / 保存温度範囲 : -55°C~+125°C