



Inductors for High Frequency

Multilayer Ceramic

MLK series

MLK0603

0603 [0201 inch]*

MLK1005

1005 [0402 inch]

* Dimensions Code JIS[EIA]

REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

REMINDERS

- The storage period is less than 12 months. Be sure to follow the storage conditions (Temperature: 5 to 40°C, Humidity: 10 to 75% RH or less).
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
- Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- Before soldering, be sure to preheat components.
The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications.
If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Carefully lay out the coil for the circuit board design of the non-magnetic shield type.
A malfunction may occur due to magnetic interference.
- Use a wrist band to discharge static electricity in your body through the grounding wire.
- Do not expose the products to magnets or magnetic fields.
- Do not use for a purpose outside of the contents regulated in the delivery specifications.
- The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.
The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.
If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

- (1) Aerospace/Aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

Inductors for High Frequency Circuits

Multilayer Ceramic

Product compatible with RoHS directive
Halogen-free
Compatible with lead-free solders

Overview of the MLK Series



FEATURES

- With the adoption of a giga-spiral laminated structure, a self-resonant frequency higher than that of the MLG structure can be obtained, while the decrease of Q in the GHz band is limited.
- Monolithic structure is formed using a multilayering and sintering process with ceramic and conductive materials for high-frequency.
- There is no directivity.

APPLICATION

Smart phones, tablet terminals, high frequency modules (PAs, VCOs, FEMs , etc.), Bluetooth, W-LAN, UWB, tuners, automotive equipment (MLK1005) and other high frequency circuits for the mobile communication industry

PART NUMBER CONSTRUCTION

MLK	0603		L	1N1		J	T		□□□	
Series name	LxWxH Dimensions (mm)		Characteristics	Inductance (μH)		Inductance tolerance		Packaging style		Internal code
	0603	0.6x0.3x0.3		L	1N1	1.1	S	±0.3nH	T	
1005	1.0x0.5x0.5	S	11N	11	J	±5%				
			R10	100						

OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

Type	Temperature range		Package quantity	Individual weight
	Operating temperature	Storage temperature*		
	(°C)	(°C)	(pieces/reel)	(mg)
MLK0603	-55 to +125	-55 to +125	15000	0.2
MLK1005	-55 to +125	-55 to +125	10000	1

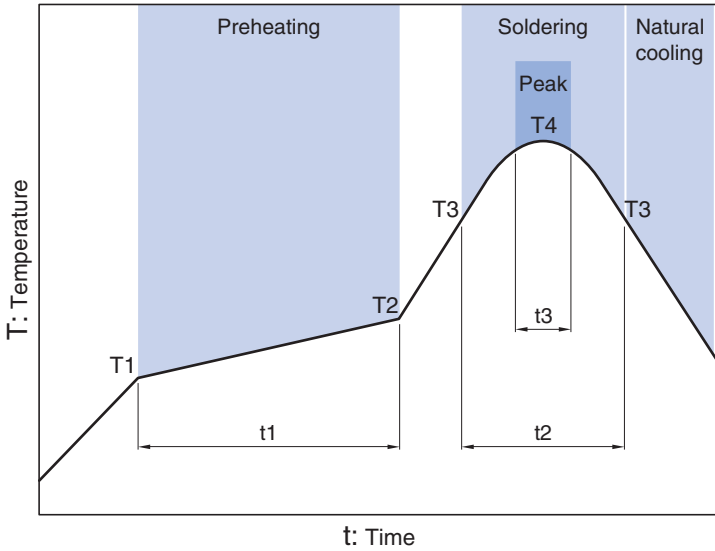
* The Storage temperature range is for after the circuit board is mounted.

- RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. <http://www.tdk.co.jp/rohs/>
- Halogen-free: Indicates that Cl content is less than 900ppm, Br content is less than 900ppm, and that the total Cl and Br content is less than 1500ppm.

• All specifications are subject to change without notice.

Overview of the MLK Series

RECOMMENDED REFLOW PROFILE



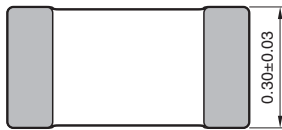
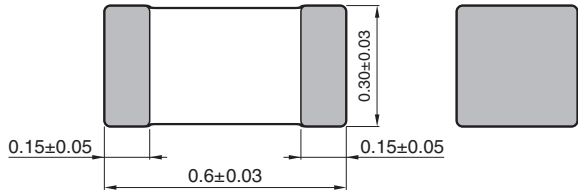
Preheating			Soldering		Peak	
Temp.	Temp.	Time	Temp.	Time	Temp.	Time
T1	T2	t1	T3	t2	T4	t3
150°C	180°C	60 to 120s	230°C	30 to 60s	250 to 260°C	10s max.

• All specifications are subject to change without notice.

MLK series

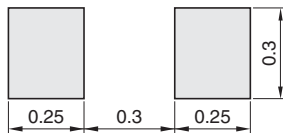
MLK0603 Type

SHAPE & DIMENSIONS



Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

MLK series **MLK0603 Type**

■ ELECTRICAL CHARACTERISTICS

□ CHARACTERISTICS SPECIFICATION TABLE

L (nH)	Tolerance	L measuring frequency (MHz)	Q min.	Q measuring frequency (MHz)	Self-resonant frequency (GHz)		DC resistance (Ω)		Rated current (mA) max.	Part No.*
					min.	typ.	max.	typ.		
1.0	$\pm 0.3\text{nH}$	100	6	300	12.0	17.1	0.20	0.09	300	MLK0603L1N0ST□□□
1.1	$\pm 0.3\text{nH}$	100	6	300	11.0	17.1	0.22	0.10	300	MLK0603L1N1ST□□□
1.2	$\pm 0.3\text{nH}$	100	6	300	11.0	16.1	0.22	0.11	300	MLK0603L1N2ST□□□
1.3	$\pm 0.3\text{nH}$	100	6	300	10.0	15.8	0.24	0.12	300	MLK0603L1N3ST□□□
1.5	$\pm 0.3\text{nH}$	100	6	300	10.0	14.9	0.24	0.12	300	MLK0603L1N5ST□□□
1.6	$\pm 0.3\text{nH}$	100	6	300	10.0	14.3	0.27	0.13	300	MLK0603L1N6ST□□□
1.8	$\pm 0.3\text{nH}$	100	6	300	10.0	13.8	0.27	0.14	300	MLK0603L1N8ST□□□
2.0	$\pm 0.3\text{nH}$	100	6	300	9.0	12.6	0.30	0.15	300	MLK0603L2N0ST□□□
2.2	$\pm 0.3\text{nH}$	100	6	300	9.0	12.5	0.30	0.17	300	MLK0603L2N2ST□□□
2.4	$\pm 0.3\text{nH}$	100	6	300	8.5	11.4	0.35	0.17	300	MLK0603L2N4ST□□□
2.7	$\pm 0.3\text{nH}$	100	6	300	8.5	10.9	0.35	0.18	300	MLK0603L2N7ST□□□
3.0	$\pm 0.3\text{nH}$	100	6	300	8.0	10.6	0.40	0.20	200	MLK0603L3N0ST□□□
3.3	$\pm 0.3\text{nH}$	100	6	300	8.0	10.5	0.40	0.22	200	MLK0603L3N3ST□□□
3.6	$\pm 0.3\text{nH}$	100	6	300	8.0	9.9	0.45	0.22	200	MLK0603L3N6ST□□□
3.9	$\pm 0.3\text{nH}$	100	6	300	8.0	9.8	0.45	0.25	200	MLK0603L3N9ST□□□
4.3	$\pm 0.3\text{nH}$	100	6	300	7.5	9.5	0.50	0.28	200	MLK0603L4N3ST□□□
4.7	$\pm 0.3\text{nH}$	100	6	300	7.5	9.5	0.50	0.28	200	MLK0603L4N7ST□□□
5.1	$\pm 0.3\text{nH}$	100	6	300	6.5	8.8	0.60	0.28	200	MLK0603L5N1ST□□□
5.6	$\pm 0.3\text{nH}$	100	6	300	6.5	8.5	0.60	0.30	200	MLK0603L5N6ST□□□
6.2	$\pm 0.3\text{nH}$	100	6	300	6.0	8.3	0.65	0.34	200	MLK0603L6N2ST□□□
6.8	$\pm 5\%$	100	6	300	6.0	8.1	0.65	0.34	200	MLK0603L6N8JT□□□
7.5	$\pm 5\%$	100	6	300	6.0	7.7	0.70	0.36	200	MLK0603L7N5JT□□□
8.2	$\pm 5\%$	100	6	300	6.0	7.9	0.70	0.41	200	MLK0603L8N2JT□□□
9.1	$\pm 5\%$	100	6	300	5.5	7.4	0.80	0.42	200	MLK0603L9N1JT□□□
10	$\pm 5\%$	100	6	300	5.5	7.5	0.80	0.48	200	MLK0603L10NJT□□□
12	$\pm 5\%$	100	6	300	5.0	6.9	1.00	0.54	150	MLK0603L12NJT□□□
15	$\pm 5\%$	100	6	300	4.5	6.6	1.10	0.66	150	MLK0603L15NJT□□□
18	$\pm 5\%$	100	6	300	4.0	5.8	1.30	0.85	100	MLK0603L18NJT□□□
22	$\pm 5\%$	100	6	300	3.5	5.3	1.60	1.02	100	MLK0603L22NJT□□□
27	$\pm 5\%$	100	6	300	3.0	4.6	1.70	1.09	100	MLK0603L27NJT□□□
33	$\pm 5\%$	100	6	300	2.8	4.4	1.80	1.21	100	MLK0603L33NJT□□□

* The "□□□" of the Part Number contains the internal code.

○ Measurement equipment

Measurement item	Product No.	Manufacturer
L, Q	4291B+16197A	Agilent Technologies
Self-resonant frequency	8720C	Agilent Technologies
DC resistance	Type-7561	Yokogawa

* Equivalent measurement equipment may be used.

MLK series **MLK0603 Type**

■ ELECTRICAL CHARACTERISTICS

□ L, Q FREQUENCY CHARACTERISTICS TABLE

L(nH)typ.					Q typ.					Part No.*
500MHz	800MHz	1.8GHz	2.0GHz	2.4GHz	500MHz	800MHz	1.8GHz	2.0GHz	2.4GHz	
0.9	0.9	0.9	0.9	0.9	10	12	19	20	22	MLK0603L1N0ST□□□
1.0	1.0	0.9	0.9	0.9	9	11	17	18	20	MLK0603L1N1ST□□□
1.1	1.0	1.0	1.0	1.0	9	12	18	19	21	MLK0603L1N2ST□□□
1.2	1.1	1.1	1.1	1.1	9	12	18	19	21	MLK0603L1N3ST□□□
1.3	1.3	1.3	1.3	1.3	9	12	18	19	21	MLK0603L1N5ST□□□
1.4	1.4	1.4	1.4	1.4	9	12	18	19	21	MLK0603L1N6ST□□□
1.6	1.6	1.6	1.6	1.6	9	11	17	18	20	MLK0603L1N8ST□□□
1.8	1.7	1.7	1.7	1.7	9	12	17	18	20	MLK0603L2N0ST□□□
2.0	1.9	1.9	1.9	2.0	10	12	19	20	22	MLK0603L2N2ST□□□
2.1	2.1	2.1	2.1	2.1	9	12	18	19	20	MLK0603L2N4ST□□□
2.4	2.4	2.4	2.4	2.4	10	13	19	20	22	MLK0603L2N7ST□□□
2.7	2.6	2.6	2.6	2.7	9	12	18	19	21	MLK0603L3N0ST□□□
3.0	2.9	2.9	3.0	3.0	10	13	19	20	22	MLK0603L3N3ST□□□
3.2	3.1	3.1	3.1	3.2	9	11	17	18	19	MLK0603L3N6ST□□□
3.5	3.4	3.5	3.5	3.5	10	13	19	20	22	MLK0603L3N9ST□□□
3.8	3.8	3.8	3.8	3.9	10	12	18	19	20	MLK0603L4N3ST□□□
4.2	4.2	4.2	4.2	4.3	10	13	19	20	22	MLK0603L4N7ST□□□
4.6	4.5	4.5	4.6	4.7	10	12	18	19	21	MLK0603L5N1ST□□□
5.0	5.0	5.0	5.0	5.1	10	12	18	19	21	MLK0603L5N6ST□□□
5.5	5.5	5.5	5.6	5.7	10	12	18	19	20	MLK0603L6N2ST□□□
6.2	6.1	6.2	6.2	6.4	10	13	19	20	22	MLK0603L6N8JT□□□
6.7	6.6	6.7	6.8	7.0	10	12	18	19	20	MLK0603L7N5JT□□□
7.4	7.3	7.5	7.6	7.8	10	13	19	20	21	MLK0603L8N2JT□□□
8.2	8.1	8.3	8.4	8.6	10	12	18	18	20	MLK0603L9N1JT□□□
9.0	8.9	9.2	9.3	9.6	10	13	18	19	20	MLK0603L10NJT□□□
10.8	10.6	11.0	11.2	11.6	10	12	18	18	20	MLK0603L12NJT□□□
13.5	13.4	13.9	14.2	14.8	10	12	17	18	19	MLK0603L15NJT□□□
16.2	16.1	17.0	17.4	18.4	10	12	16	17	18	MLK0603L18NJT□□□
19.8	19.7	20.9	21.5	22.8	10	12	16	16	17	MLK0603L22NJT□□□
24.4	24.4	27.2	28.6	31.7	10	12	15	15	14	MLK0603L27NJT□□□
29.7	29.7	33.4	35.1	39.3	9	11	14	14	13	MLK0603L33NJT□□□

* The "□□□" of the Part Number contains the internal code.

○ Measurement equipment

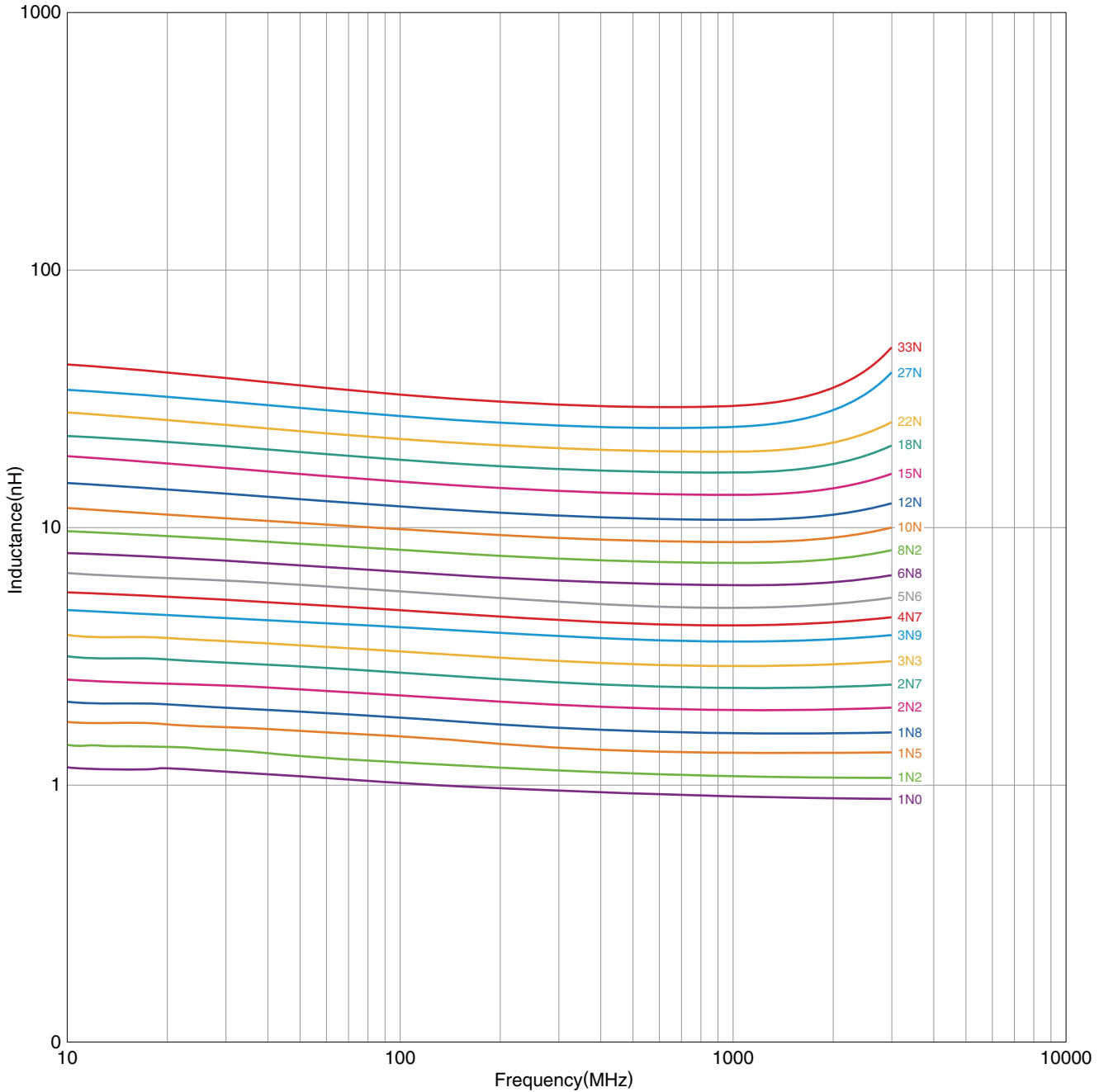
Product No.	Manufacturer
4291B+16197A	Agilent Technologies

* Equivalent measurement equipment may be used.

MLK series MLK0603 Type

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH (EXAMPLE)



○ Measurement equipment

Product No.	Manufacturer
E4991A+16197A	Agilent Technologies

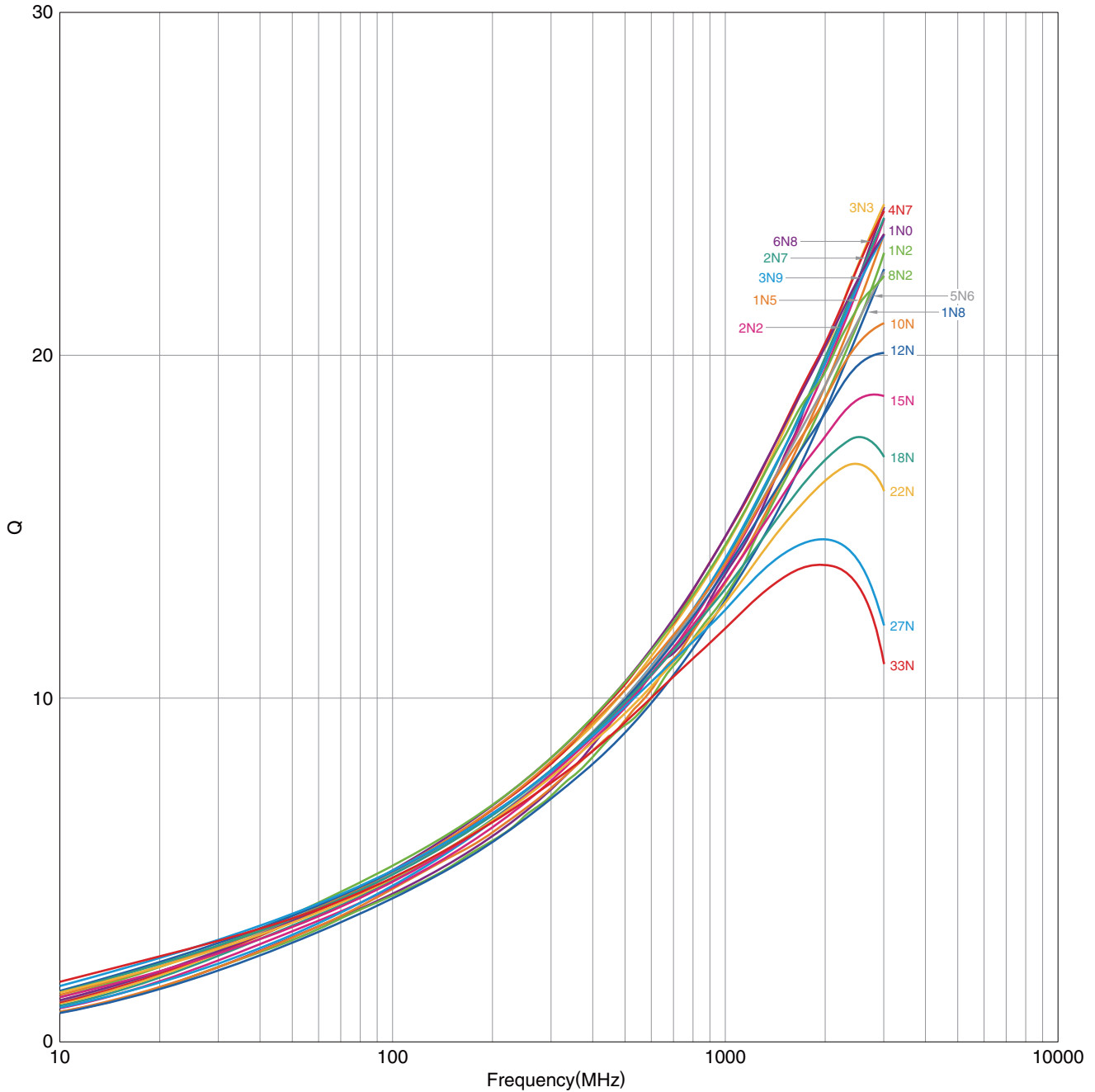
* Equivalent measurement equipment may be used.

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MLK series **MLK0603 Type**

■ ELECTRICAL CHARACTERISTICS

□ Q FREQUENCY CHARACTERISTICS GRAPH (EXAMPLE)



○ Measurement equipment

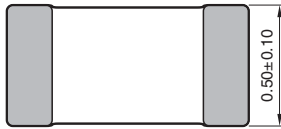
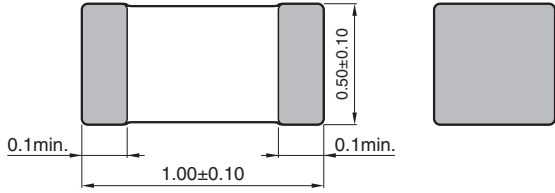
Product No.	Manufacturer
E4991A+16197A	Agilent Technologies

* Equivalent measurement equipment may be used.

MLK series

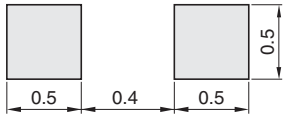
MLK1005 Type

■ SHAPE & DIMENSIONS



Dimensions in mm

■ RECOMMENDED LAND PATTERN



Dimensions in mm

• All specifications are subject to change without notice.

MLK series **MLK1005 Type**

■ ELECTRICAL CHARACTERISTICS

□ CHARACTERISTICS SPECIFICATION TABLE

L (nH)	Tolerance	Q min.	Q measuring frequency (MHz)	Self-resonant frequency (GHz)		DC resistance (Ω)		Rated current (mA) max.	Part No.*
				min.	typ.	max.	typ.		
1.0	$\pm 0.3\text{nH}$	5	100	12.0	16.9	0.10	0.05	500	MLK1005S1N0 Δ T□□□
1.1	$\pm 0.3\text{nH}$	5	100	11.5	14.8	0.12	0.05	500	MLK1005S1N1 Δ T□□□
1.2	$\pm 0.3\text{nH}$	5	100	11.0	14.4	0.12	0.05	500	MLK1005S1N2 Δ T□□□
1.3	$\pm 0.3\text{nH}$	5	100	10.0	12.6	0.15	0.06	500	MLK1005S1N3 Δ T□□□
1.5	$\pm 0.3\text{nH}$	6	100	9.5	12.2	0.15	0.06	500	MLK1005S1N5 Δ T□□□
1.6	$\pm 0.3\text{nH}$	6	100	9.0	11.9	0.17	0.06	500	MLK1005S1N6 Δ T□□□
1.8	$\pm 0.3\text{nH}$	6	100	8.5	10.9	0.17	0.07	500	MLK1005S1N8 Δ T□□□
2.0	$\pm 0.3\text{nH}$	6	100	8.3	10.0	0.18	0.08	500	MLK1005S2N0 Δ T□□□
2.2	$\pm 0.3\text{nH}$	6	100	8.0	9.6	0.18	0.08	500	MLK1005S2N2 Δ T□□□
2.4	$\pm 0.3\text{nH}$	6	100	7.8	9.5	0.20	0.09	500	MLK1005S2N4 Δ T□□□
2.7	$\pm 0.3\text{nH}$	6	100	7.5	9.1	0.20	0.10	500	MLK1005S2N7 Δ T□□□
3.0	$\pm 0.3\text{nH}$	6	100	7.2	8.5	0.22	0.10	400	MLK1005S3N0 Δ T□□□
3.3	$\pm 0.3\text{nH}$	7	100	7.0	8.3	0.22	0.11	400	MLK1005S3N3 Δ T□□□
3.6	$\pm 0.3\text{nH}$	7	100	6.8	8.1	0.25	0.11	400	MLK1005S3N6 Δ T□□□
3.9	$\pm 0.3\text{nH}$	7	100	6.5	7.8	0.25	0.12	400	MLK1005S3N9 Δ T□□□
4.3	$\pm 0.3\text{nH}$	7	100	6.3	7.4	0.28	0.13	400	MLK1005S4N3 Δ T□□□
4.7	$\pm 0.3\text{nH}$	7	100	6.0	6.9	0.28	0.13	400	MLK1005S4N7 Δ T□□□
5.1	$\pm 0.3\text{nH}$	7	100	5.8	7.0	0.30	0.15	400	MLK1005S5N1 Δ T□□□
5.6	$\pm 0.3\text{nH}$	7	100	5.7	6.7	0.30	0.15	400	MLK1005S5N6 Δ T□□□
6.2	$\pm 0.3\text{nH}$	7	100	5.6	6.5	0.35	0.18	400	MLK1005S6N2 Δ T□□□
6.8	$\pm 5\%$	7	100	5.5	6.3	0.35	0.18	400	MLK1005S6N8 Δ T□□□
7.5	$\pm 5\%$	7	100	5.0	6.0	0.38	0.20	350	MLK1005S7N5 Δ T□□□
8.2	$\pm 5\%$	7	100	5.0	6.0	0.38	0.21	350	MLK1005S8N2 Δ T□□□
9.1	$\pm 5\%$	7	100	4.8	5.9	0.42	0.23	350	MLK1005S9N1 Δ T□□□
10	$\pm 5\%$	7	100	4.7	5.2	0.42	0.23	350	MLK1005S10N Δ T□□□
12	$\pm 5\%$	7	100	4.3	5.3	0.47	0.27	350	MLK1005S12N Δ T□□□
15	$\pm 5\%$	7	100	4.0	4.8	0.50	0.33	300	MLK1005S15N Δ T□□□
18	$\pm 5\%$	7	100	4.0	4.7	0.60	0.38	250	MLK1005S18N Δ T□□□
22	$\pm 5\%$	7	100	3.5	4.4	0.70	0.46	200	MLK1005S22N Δ T□□□
27	$\pm 5\%$	7	100	3.0	3.9	0.80	0.53	200	MLK1005S27N Δ T□□□
33	$\pm 5\%$	7	100	2.5	3.5	0.90	0.59	200	MLK1005S33N Δ T□□□
39	$\pm 5\%$	6	100	2.0	3.1	1.00	0.65	200	MLK1005S39N Δ T□□□
47	$\pm 5\%$	6	100	1.8	3.0	1.20	0.74	200	MLK1005S47N Δ T□□□
56	$\pm 5\%$	6	100	1.5	2.6	1.30	0.84	200	MLK1005S56N Δ T□□□
68	$\pm 5\%$	6	100	1.4	2.4	1.50	1.01	150	MLK1005S68N Δ T□□□
82	$\pm 5\%$	6	100	1.3	2.2	1.80	1.39	150	MLK1005S82N Δ T□□□
100	$\pm 5\%$	6	100	1.1	1.9	2.20	1.60	100	MLK1005SR10 Δ T□□□
110	$\pm 5\%$	6	100	1.1	2.0	2.70	1.89	100	MLK1005SR11 Δ T□□□
120	$\pm 5\%$	6	100	1.1	1.9	3.00	2.08	100	MLK1005SR12 Δ T□□□
130	$\pm 5\%$	6	100	1.1	1.8	3.30	2.28	100	MLK1005SR13 Δ T□□□
150	$\pm 5\%$	6	100	1.1	1.7	5.00	3.58	80	MLK1005SR15 Δ T□□□
160	$\pm 5\%$	6	100	1.1	1.7	5.20	3.79	80	MLK1005SR16 Δ T□□□
180	$\pm 5\%$	6	100	1.1	1.6	6.00	4.28	80	MLK1005SR18 Δ T□□□
200	$\pm 5\%$	6	100	1.1	1.5	6.20	4.56	70	MLK1005SR20 Δ T□□□
220	$\pm 5\%$	6	100	1.0	1.4	6.20	4.54	70	MLK1005SR22 Δ T□□□
240	$\pm 5\%$	6	100	1.0	1.3	6.50	4.84	70	MLK1005SR24 Δ T□□□
270	$\pm 5\%$	6	100	0.9	1.2	6.50	4.78	70	MLK1005SR27 Δ T□□□
300	$\pm 5\%$	6	100	0.9	1.2	7.50	5.37	70	MLK1005SR30 Δ T□□□
330	$\pm 5\%$	6	100	0.85	1.1	8.00	5.82	70	MLK1005SR33 Δ T□□□

* The " Δ " of the Part Number contains the inductance tolerance code, S($\pm 0.3\text{nH}$) or J($\pm 5\%$).

* The "□□□" of the Part Number contains the internal code.

○ Measurement equipment

Measurement item	Product No.	Manufacturer
L, Q	4291B+16193A	Agilent Technologies
Self-resonant frequency	8720C	Agilent Technologies
DC resistance	Type-7561	Yokogawa

* Equivalent measurement equipment may be used.

• All specifications are subject to change without notice.

MLK series **MLK1005 Type**

■ ELECTRICAL CHARACTERISTICS

□ L, Q FREQUENCY CHARACTERISTICS TABLE

L(nH)typ.					Q typ.					Part No.*
500MHz	800MHz	1.8GHz	2.0GHz	2.4GHz	500MHz	800MHz	1.8GHz	2.0GHz	2.4GHz	
0.9	0.9	0.9	0.9	0.9	16	20	30	32	36	MLK1005S1N0△T□□□
1.0	1.0	1.0	1.0	1.0	16	20	32	35	39	MLK1005S1N1△T□□□
1.1	1.1	1.1	1.1	1.1	15	18	28	30	33	MLK1005S1N2△T□□□
1.2	1.2	1.2	1.2	1.2	17	20	33	35	39	MLK1005S1N3△T□□□
1.4	1.4	1.4	1.4	1.4	15	19	29	31	34	MLK1005S1N5△T□□□
1.5	1.5	1.5	1.5	1.5	17	21	34	36	40	MLK1005S1N6△T□□□
1.7	1.7	1.7	1.7	1.7	16	21	32	33	37	MLK1005S1N8△T□□□
1.9	1.8	1.9	1.9	1.9	16	20	32	34	38	MLK1005S2N0△T□□□
2.0	2.0	2.0	2.0	2.1	15	19	29	31	34	MLK1005S2N2△T□□□
2.2	2.2	2.2	2.3	2.3	16	20	32	34	38	MLK1005S2N4△T□□□
2.5	2.5	2.5	2.6	2.6	17	22	33	35	39	MLK1005S2N7△T□□□
2.8	2.8	2.8	2.9	2.9	18	22	35	36	41	MLK1005S3N0△T□□□
3.1	3.1	3.1	3.1	3.2	16	20	31	32	36	MLK1005S3N3△T□□□
3.4	3.3	3.4	3.5	3.5	17	22	33	35	39	MLK1005S3N6△T□□□
3.7	3.6	3.7	3.7	3.8	17	21	32	33	37	MLK1005S3N9△T□□□
4.0	4.0	4.1	4.2	4.3	17	22	34	35	39	MLK1005S4N3△T□□□
4.4	4.4	4.5	4.6	4.7	17	22	33	35	38	MLK1005S4N7△T□□□
4.8	4.8	4.9	5.0	5.1	17	22	33	35	38	MLK1005S5N1△T□□□
5.3	5.2	5.4	5.5	5.7	17	22	33	34	38	MLK1005S5N6△T□□□
5.8	5.8	6.0	6.2	6.4	18	23	34	35	39	MLK1005S6N2△T□□□
6.4	6.4	6.6	6.7	7.0	17	22	32	33	36	MLK1005S6N8△T□□□
7.1	7.0	7.4	7.6	7.9	18	23	34	36	38	MLK1005S7N5△T□□□
7.7	7.7	8.1	8.3	8.6	19	23	34	36	38	MLK1005S8N2△T□□□
8.6	8.6	9.1	9.3	9.7	18	23	34	36	38	MLK1005S9N1△T□□□
9.4	9.4	10.0	10.2	10.7	19	23	34	35	38	MLK1005S10N△T□□□
11.3	11.3	12.1	12.4	13.0	19	23	34	35	37	MLK1005S12N△T□□□
14.2	14.2	15.3	15.8	16.8	18	23	33	34	35	MLK1005S15N△T□□□
17.0	17.1	18.6	19.2	20.6	18	23	32	33	34	MLK1005S18N△T□□□
20.8	20.9	23.0	23.9	25.8	18	23	32	33	34	MLK1005S22N△T□□□
25.6	25.9	29.8	31.5	35.7	18	23	30	30	28	MLK1005S27N△T□□□
31.4	31.9	37.6	40.2		18	23	29	29		MLK1005S33N△T□□□
37.2	38.1	48.9			17	21	24			MLK1005S39N△T□□□
45.0	46.2	60.6			18	21	24			MLK1005S47N△T□□□
53.7	55.4	76.7			17	21	22			MLK1005S56N△T□□□
65.5	68.4	105.6			17	20	18			MLK1005S68N△T□□□
79.3	83.6	142.7			16	19	15			MLK1005S82N△T□□□
97.1	103.2	199.4			15	18	13			MLK1005SR10△T□□□
107.8	115.9				16	18				MLK1005SR11△T□□□
118.0	127.8				16	18				MLK1005SR12△T□□□
127.5	139.5				14	16				MLK1005SR13△T□□□
149.4	166.0				16	17				MLK1005SR15△T□□□
160.5	179.4				16	18				MLK1005SR16△T□□□
181.1	204.1				16	17				MLK1005SR18△T□□□
202.8	231.9				15	17				MLK1005SR20△T□□□
225.7	266.8				15	15				MLK1005SR22△T□□□
248.3	299.6				14	15				MLK1005SR24△T□□□
290.0	386.0				14	12				MLK1005SR27△T□□□
323.1	432.6				14	12				MLK1005SR30△T□□□
358.9	493.1				13	12				MLK1005SR33△T□□□

* The "△" of the Part Number contains the inductance tolerance code, S(±0.3nH) or J(±5%).

* The "□□□" of the Part Number contains the internal code.

○ Measurement equipment

Product No.	Manufacturer
4291B+16193A	Agilent Technologies

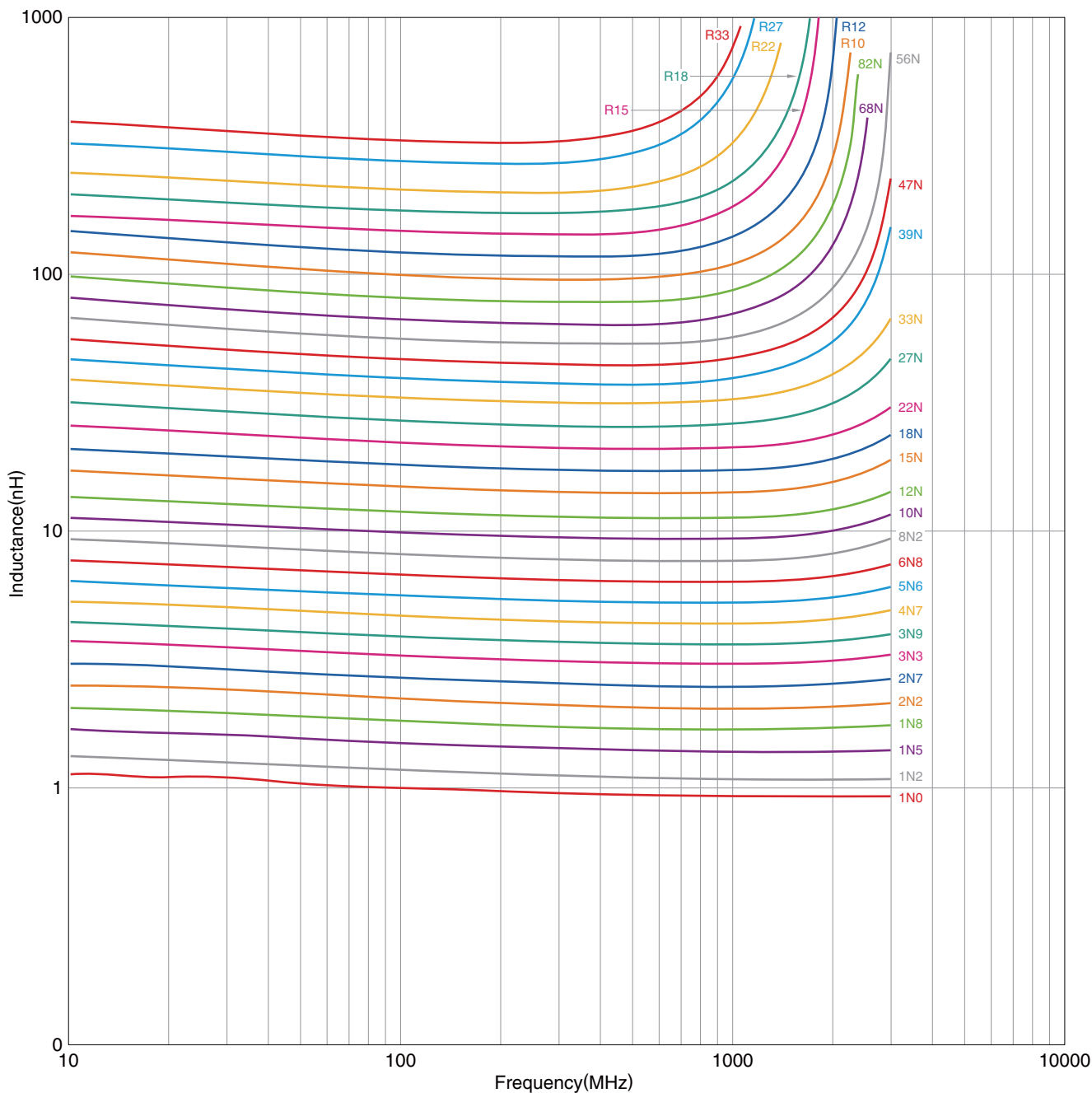
* Equivalent measurement equipment may be used.

• All specifications are subject to change without notice.

MLK series MLK1005 Type

ELECTRICAL CHARACTERISTICS

L FREQUENCY CHARACTERISTICS GRAPH (EXAMPLE)



○ Measurement equipment

Product No.	Manufacturer
E4991A+16193A	Agilent Technologies

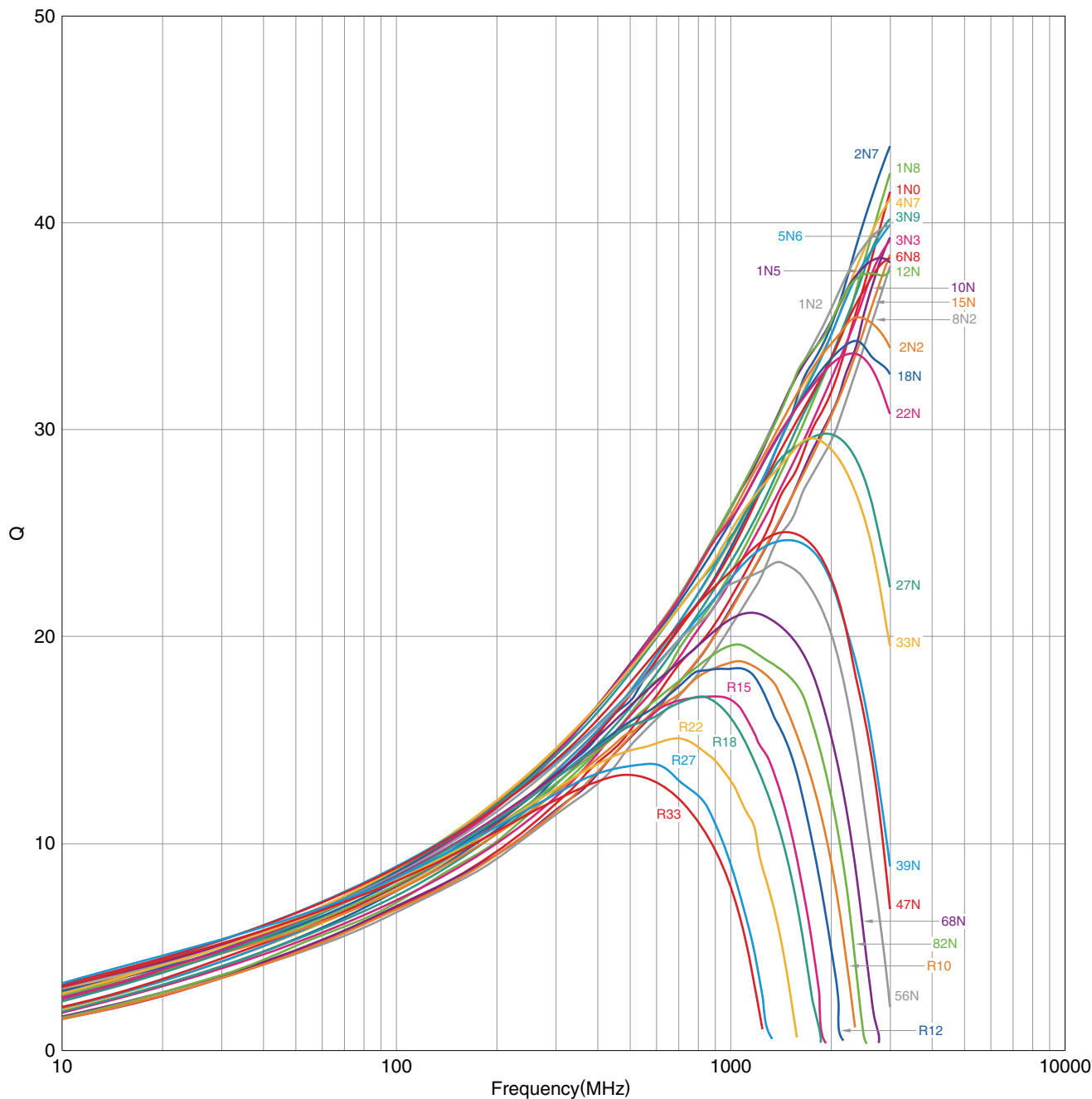
* Equivalent measurement equipment may be used.

• All specifications are subject to change without notice.

MLK series MLK1005 Type

ELECTRICAL CHARACTERISTICS

Q FREQUENCY CHARACTERISTICS GRAPH (EXAMPLE)



○ Measurement equipment

Product No.	Manufacturer
E4991A+16193A	Agilent Technologies

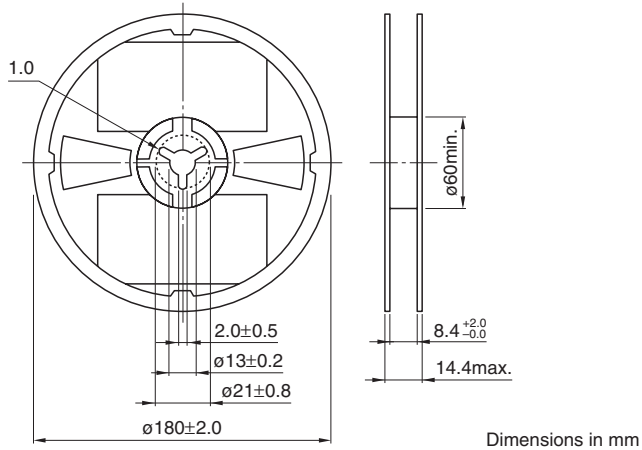
* Equivalent measurement equipment may be used.

• All specifications are subject to change without notice.

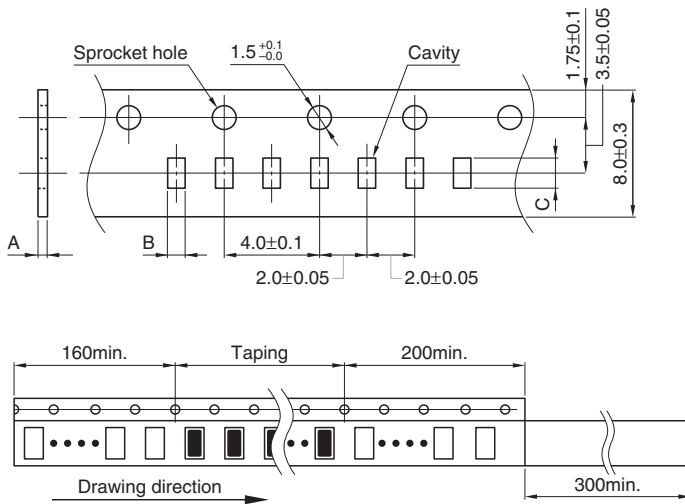
MLK series

Packaging Style

REEL DIMENSIONS



TAPE DIMENSIONS



Type	A	B	C
MLK0603	0.5 max.	0.38 ± 0.05	0.68 ± 0.05
MLK1005	0.8 max.	0.67 ± 0.1	1.15 ± 0.1

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