



Inductors for High Frequency

Multilayer Ceramic

MLG series (For automobiles)

MLG0603S	0603 [0201 inch]*
MLG1005S	1005 [0402 inch]
MLG1608	1608 [0603 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 (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
AEC-Q200

Overview of the MLG Series

FEATURES

- Advanced monolithic structure is formed using a multilayering and sintering process with ceramic and conductive materials for High-frequency.

APPLICATION

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

PART NUMBER CONSTRUCTION

MLG	0603		S	0N3		S		T		D25	
Series name	LxWxH Dimensions (mm)		Product internal code	Inductance (nH)		Inductance tolerance		Packaging style		Internal code	
	0603	0.6x0.3x0.3		B	1N1	1.1	B	±0.1nH	T		Taping
	1005	1.0x0.5x0.5		S	11N	11	C	±0.2nH			
					R10	100	S	±0.3nH			
	1608	1.6x0.8x0.8			1R0	1000	D	±0.5nH			
						H	±3%				
						J	±5%				

OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

Type	Temperature range		Package quantity (pieces/reel)	Individual weight (mg)
	Operating temperature (°C)	Storage temperature* (°C)		
MLG0603S	-55 to +125	-55 to +125	15000	0.2
MLG1005S	-55 to +125	-55 to +125	10000	1
MLG1608	-55 to +125	-55 to +125	4000	4

* 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 MLG Series

RECOMMENDED REFLOW PROFILE



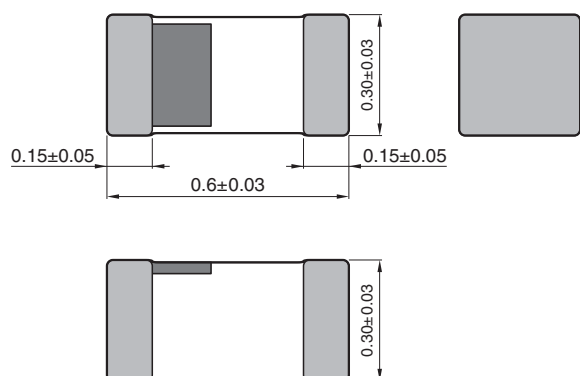
Preheating			Soldering		Peak	
Temp.	Temp.	Time	Temp.	Time	Temp.	Time
T1	T2	t1	T3	t2	T4	t3
150°C	180°C	60 to 120s	230°C	30 to 60s	250 to 260°C	10s max.

MLG_{series}

MLG0603S Type

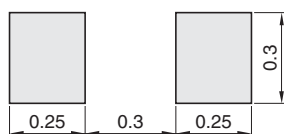


■ SHAPE & DIMENSIONS



Dimensions in mm

■ RECOMMENDED LAND PATTERN



Dimensions in mm

MLG_{series} **MLG0603S Type**

■ ELECTRICAL CHARACTERISTICS

□ CHARACTERISTICS SPECIFICATION TABLE

L (nH)	Tolerance	Q min.	L, Q measuring frequency (MHz)	Self-resonant frequency (GHz)		DC resistance (Ω)		Rated current (mA) max.	Part No.*
				min.	typ.	max.	typ.		
0.3	± 0.1 nH	—	100	10.0	20up	0.1	0.02	600	MLG0603S0N3BTD25
0.3	± 0.2 nH	—	100	10.0	20up	0.1	0.02	600	MLG0603S0N3CTD25
0.4	± 0.1 nH	—	100	10.0	20up	0.1	0.02	600	MLG0603S0N4BTD25
0.4	± 0.2 nH	—	100	10.0	20up	0.1	0.02	600	MLG0603S0N4CTD25
0.5	± 0.1 nH	—	100	10.0	20up	0.1	0.02	600	MLG0603S0N5BTD25
0.5	± 0.2 nH	—	100	10.0	20up	0.1	0.02	600	MLG0603S0N5CTD25
0.6	± 0.1 nH	—	100	10.0	20up	0.1	0.02	600	MLG0603S0N6BTD25
0.6	± 0.2 nH	—	100	10.0	20up	0.1	0.02	600	MLG0603S0N6CTD25
0.7	± 0.1 nH	—	100	10.0	16.3	0.1	0.02	600	MLG0603S0N7BTD25
0.7	± 0.2 nH	—	100	10.0	16.3	0.1	0.02	600	MLG0603S0N7CTD25
0.8	± 0.1 nH	—	100	10.0	16.1	0.1	0.03	600	MLG0603S0N8BTD25
0.8	± 0.2 nH	—	100	10.0	16.1	0.1	0.03	600	MLG0603S0N8CTD25
0.9	± 0.1 nH	—	100	10.0	13.8	0.1	0.03	600	MLG0603S0N9BTD25
0.9	± 0.2 nH	—	100	10.0	13.8	0.1	0.03	600	MLG0603S0N9CTD25
1.0	± 0.1 nH	4	100	10.0	14.4	0.1	0.04	600	MLG0603S1N0BTD25
1.0	± 0.2 nH	4	100	10.0	14.4	0.1	0.04	600	MLG0603S1N0CTD25
1.0	± 0.3 nH	4	100	10.0	14.4	0.1	0.04	600	MLG0603S1N0STD25
1.1	± 0.1 nH	4	100	10.0	13.6	0.15	0.04	550	MLG0603S1N1BTD25
1.1	± 0.2 nH	4	100	10.0	13.6	0.15	0.04	550	MLG0603S1N1CTD25
1.1	± 0.3 nH	4	100	10.0	13.6	0.15	0.04	550	MLG0603S1N1STD25
1.2	± 0.1 nH	4	100	10.0	12.3	0.15	0.06	550	MLG0603S1N2BTD25
1.2	± 0.2 nH	4	100	10.0	12.3	0.15	0.06	550	MLG0603S1N2CTD25
1.2	± 0.3 nH	4	100	10.0	12.3	0.15	0.06	550	MLG0603S1N2STD25
1.3	± 0.1 nH	4	100	9.0	11.4	0.15	0.07	550	MLG0603S1N3BTD25
1.3	± 0.2 nH	4	100	9.0	11.4	0.15	0.07	550	MLG0603S1N3CTD25
1.3	± 0.3 nH	4	100	9.0	11.4	0.15	0.07	550	MLG0603S1N3STD25
1.5	± 0.1 nH	4	100	9.0	10.4	0.15	0.07	550	MLG0603S1N5BTD25
1.5	± 0.2 nH	4	100	9.0	10.4	0.15	0.07	550	MLG0603S1N5CTD25
1.5	± 0.3 nH	4	100	9.0	10.4	0.15	0.07	550	MLG0603S1N5STD25
1.6	± 0.1 nH	4	100	9.0	11.5	0.2	0.09	500	MLG0603S1N6BTD25
1.6	± 0.2 nH	4	100	9.0	11.5	0.2	0.09	500	MLG0603S1N6CTD25
1.6	± 0.3 nH	4	100	9.0	11.5	0.2	0.09	500	MLG0603S1N6STD25
1.8	± 0.1 nH	4	100	8.5	10.0	0.2	0.12	500	MLG0603S1N8BTD25
1.8	± 0.2 nH	4	100	8.5	10.0	0.2	0.12	500	MLG0603S1N8CTD25
1.8	± 0.3 nH	4	100	8.5	10.0	0.2	0.12	500	MLG0603S1N8STD25
2.0	± 0.1 nH	4	100	8.2	9.8	0.25	0.14	400	MLG0603S2N0BTD25
2.0	± 0.2 nH	4	100	8.2	9.8	0.25	0.14	400	MLG0603S2N0CTD25
2.0	± 0.3 nH	4	100	8.2	9.8	0.25	0.14	400	MLG0603S2N0STD25
2.2	± 0.1 nH	4	100	8.0	8.9	0.25	0.14	400	MLG0603S2N2BTD25
2.2	± 0.2 nH	4	100	8.0	8.9	0.25	0.14	400	MLG0603S2N2CTD25
2.2	± 0.3 nH	4	100	8.0	8.9	0.25	0.14	400	MLG0603S2N2STD25
2.4	± 0.1 nH	4	100	8.0	9.2	0.25	0.15	300	MLG0603S2N4BTD25
2.4	± 0.2 nH	4	100	8.0	9.2	0.25	0.15	300	MLG0603S2N4CTD25
2.4	± 0.3 nH	4	100	8.0	9.2	0.25	0.15	300	MLG0603S2N4STD25

* Please contact us for $\pm 2\%$ inductance tolerance (code G) products.

○ 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.

MLG_{series} **MLG0603S Type**

■ ELECTRICAL CHARACTERISTICS

□ CHARACTERISTICS SPECIFICATION TABLE

L (nH)	Tolerance	Q min.	L, Q measuring frequency (MHz)	Self-resonant frequency (GHz)		DC resistance (Ω)		Rated current (mA) max.	Part No.*
				min.	typ.	max.	typ.		
2.7	$\pm 0.1\text{nH}$	4	100	6.5	8.1	0.25	0.15	300	MLG0603S2N7BTD25
2.7	$\pm 0.2\text{nH}$	4	100	6.5	8.1	0.25	0.15	300	MLG0603S2N7CTD25
2.7	$\pm 0.3\text{nH}$	4	100	6.5	8.1	0.25	0.15	300	MLG0603S2N7STD25
3.0	$\pm 0.1\text{nH}$	4	100	6.2	7.8	0.3	0.20	300	MLG0603S3N0BTD25
3.0	$\pm 0.2\text{nH}$	4	100	6.2	7.8	0.3	0.20	300	MLG0603S3N0CTD25
3.0	$\pm 0.3\text{nH}$	4	100	6.2	7.8	0.3	0.20	300	MLG0603S3N0STD25
3.3	$\pm 0.1\text{nH}$	4	100	5.8	7.0	0.35	0.23	300	MLG0603S3N3BTD25
3.3	$\pm 0.2\text{nH}$	4	100	5.8	7.0	0.35	0.23	300	MLG0603S3N3CTD25
3.3	$\pm 0.3\text{nH}$	4	100	5.8	7.0	0.35	0.23	300	MLG0603S3N3STD25
3.6	$\pm 0.1\text{nH}$	4	100	5.5	6.9	0.35	0.22	300	MLG0603S3N6BTD25
3.6	$\pm 0.2\text{nH}$	4	100	5.5	6.9	0.35	0.22	300	MLG0603S3N6CTD25
3.6	$\pm 0.3\text{nH}$	4	100	5.5	6.9	0.35	0.22	300	MLG0603S3N6STD25
3.9	$\pm 0.1\text{nH}$	5	100	5.0	6.6	0.4	0.27	300	MLG0603S3N9BTD25
3.9	$\pm 0.2\text{nH}$	5	100	5.0	6.6	0.4	0.27	300	MLG0603S3N9CTD25
3.9	$\pm 0.3\text{nH}$	5	100	5.0	6.6	0.4	0.27	300	MLG0603S3N9STD25
4.3	$\pm 0.3\text{nH}$	5	100	5.0	6.4	0.4	0.27	300	MLG0603S4N3STD25
4.3	$\pm 3\%$	5	100	5.0	6.4	0.4	0.27	300	MLG0603S4N3HTD25
4.7	$\pm 0.3\text{nH}$	5	100	4.5	5.4	0.45	0.28	300	MLG0603S4N7STD25
4.7	$\pm 3\%$	5	100	4.5	5.4	0.45	0.28	300	MLG0603S4N7HTD25
5.1	$\pm 0.3\text{nH}$	5	100	4.5	5.5	0.45	0.23	250	MLG0603S5N1STD25
5.1	$\pm 3\%$	5	100	4.5	5.5	0.45	0.23	250	MLG0603S5N1HTD25
5.6	$\pm 0.3\text{nH}$	5	100	4.2	5.3	0.5	0.31	250	MLG0603S5N6STD25
5.6	$\pm 3\%$	5	100	4.2	5.3	0.5	0.31	250	MLG0603S5N6HTD25
6.2	$\pm 0.3\text{nH}$	5	100	4.2	5.1	0.55	0.32	250	MLG0603S6N2STD25
6.2	$\pm 3\%$	5	100	4.2	5.1	0.55	0.32	250	MLG0603S6N2HTD25
6.8	$\pm 3\%$	5	100	3.6	4.4	0.6	0.32	250	MLG0603S6N8HTD25
6.8	$\pm 5\%$	5	100	3.6	4.4	0.6	0.32	250	MLG0603S6N8JTD25
7.5	$\pm 3\%$	5	100	4.2	5.3	0.7	0.43	200	MLG0603S7N5HTD25
7.5	$\pm 5\%$	5	100	4.2	5.3	0.7	0.43	200	MLG0603S7N5JTD25
8.2	$\pm 3\%$	5	100	3.8	4.5	0.7	0.45	200	MLG0603S8N2HTD25
8.2	$\pm 5\%$	5	100	3.8	4.5	0.7	0.45	200	MLG0603S8N2JTD25
9.1	$\pm 3\%$	5	100	3.4	4.9	0.8	0.51	200	MLG0603S9N1HTD25
9.1	$\pm 5\%$	5	100	3.4	4.9	0.8	0.51	200	MLG0603S9N1JTD25
10	$\pm 3\%$	5	100	3.2	4.1	0.8	0.53	200	MLG0603S10NHTD25
10	$\pm 5\%$	5	100	3.2	4.1	0.8	0.53	200	MLG0603S10NJTD25
11	$\pm 3\%$	6	100	3.0	3.7	0.8	0.53	200	MLG0603S11NHTD25
11	$\pm 5\%$	6	100	3.0	3.7	0.8	0.53	200	MLG0603S11NJTD25
12	$\pm 3\%$	6	100	2.8	3.6	0.9	0.63	180	MLG0603S12NHTD25
12	$\pm 5\%$	6	100	2.8	3.6	0.9	0.63	180	MLG0603S12NJTD25
13	$\pm 3\%$	6	100	2.7	3.4	0.9	0.60	180	MLG0603S13NHTD25
13	$\pm 5\%$	6	100	2.7	3.4	0.9	0.60	180	MLG0603S13NJTD25
15	$\pm 3\%$	6	100	2.5	3.3	1.1	0.69	180	MLG0603S15NHTD25
15	$\pm 5\%$	6	100	2.5	3.3	1.1	0.69	180	MLG0603S15NJTD25
16	$\pm 3\%$	6	100	2.3	3.0	1.1	0.70	180	MLG0603S16NHTD25
16	$\pm 5\%$	6	100	2.3	3.0	1.1	0.70	180	MLG0603S16NJTD25
18	$\pm 3\%$	6	100	2.2	2.8	1.2	0.78	150	MLG0603S18NHTD25
18	$\pm 5\%$	6	100	2.2	2.8	1.2	0.78	150	MLG0603S18NJTD25

* Please contact us for $\pm 2\%$ inductance tolerance (code G) products.

○ 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.

MLG_{series} **MLG0603S Type**

■ ELECTRICAL CHARACTERISTICS

□ CHARACTERISTICS SPECIFICATION TABLE

L (nH)	Tolerance	Q min.	L, Q measuring frequency (MHz)	Self-resonant frequency (GHz)		DC resistance (Ω)		Rated current (mA) max.	Part No.*
				min.	typ.	max.	typ.		
20	±3%	6	100	2.1	2.6	1.2	0.75	150	MLG0603S20NHTD25
20	±5%	6	100	2.1	2.6	1.2	0.75	150	MLG0603S20NJTD25
22	±3%	6	100	2.0	2.5	1.2	0.88	150	MLG0603S22NHTD25
22	±5%	6	100	2.0	2.5	1.2	0.88	150	MLG0603S22NJTD25
24	±3%	6	100	1.9	2.3	1.3	0.90	150	MLG0603S24NHTD25
24	±5%	6	100	1.9	2.3	1.3	0.90	150	MLG0603S24NJTD25
27	±3%	6	100	1.8	2.2	1.5	1.00	100	MLG0603S27NHTD25
27	±5%	6	100	1.8	2.2	1.5	1.00	100	MLG0603S27NJTD25
30	±3%	6	100	1.6	2.0	1.6	0.95	100	MLG0603S30NHTD25
30	±5%	6	100	1.6	2.0	1.6	0.95	100	MLG0603S30NJTD25
33	±3%	6	100	1.6	2.0	1.8	1.20	100	MLG0603S33NHTD25
33	±5%	6	100	1.6	2.0	1.8	1.20	100	MLG0603S33NJTD25
36	±3%	6	100	1.5	1.8	2.0	1.68	50	MLG0603S36NHTD25
36	±5%	6	100	1.5	1.8	2.0	1.68	50	MLG0603S36NJTD25
39	±3%	6	100	1.4	1.6	2.0	1.40	50	MLG0603S39NHTD25
39	±5%	6	100	1.4	1.6	2.0	1.40	50	MLG0603S39NJTD25
43	±3%	6	100	1.3	1.6	2.2	1.91	50	MLG0603S43NHTD25
43	±5%	6	100	1.3	1.6	2.2	1.91	50	MLG0603S43NJTD25
47	±3%	6	100	1.3	1.5	2.2	1.48	50	MLG0603S47NHTD25
47	±5%	6	100	1.3	1.5	2.2	1.48	50	MLG0603S47NJTD25
51	±3%	5	100	1.2	1.5	2.8	1.98	50	MLG0603S51NHTD25
51	±5%	5	100	1.2	1.5	2.8	1.98	50	MLG0603S51NJTD25
56	±3%	5	100	1.2	1.4	3.2	2.11	50	MLG0603S56NHTD25
56	±5%	5	100	1.2	1.4	3.2	2.11	50	MLG0603S56NJTD25
62	±3%	5	100	1.1	1.3	3.3	2.22	50	MLG0603S62NHTD25
62	±5%	5	100	1.1	1.3	3.3	2.22	50	MLG0603S62NJTD25
68	±3%	5	100	1.1	1.2	3.5	2.40	50	MLG0603S68NHTD25
68	±5%	5	100	1.0	1.2	3.5	2.40	50	MLG0603S68NJTD25
75	±3%	5	100	1.0	1.2	3.8	2.67	50	MLG0603S75NHTD25
75	±5%	5	100	0.9	1.1	3.8	2.67	50	MLG0603S75NJTD25
82	±3%	5	100	0.9	1.1	4.0	2.80	50	MLG0603S82NHTD25
82	±5%	5	100	0.8	0.9	4.0	2.80	50	MLG0603S82NJTD25
91	±3%	5	100	0.8	0.9	4.3	2.97	50	MLG0603S91NHTD25
91	±5%	5	100	0.8	0.9	4.3	2.97	50	MLG0603S91NJTD25
100	±3%	5	100	0.8	0.9	4.5	3.13	50	MLG0603SR10HTD25
100	±5%	5	100	0.8	0.9	4.5	3.13	50	MLG0603SR10JTD25
110	±3%	5	100	0.8	0.9	6.5	5.24	50	MLG0603SR11HTD25
110	±5%	5	100	0.7	0.9	6.5	5.24	50	MLG0603SR11JTD25
120	±3%	5	100	0.7	0.9	7.0	5.53	50	MLG0603SR12HTD25
120	±5%	5	100	0.7	0.8	7.0	5.53	50	MLG0603SR12JTD25
130	±3%	5	100	0.7	0.8	7.3	5.68	50	MLG0603SR13HTD25
130	±5%	5	100	1.1	1.2	7.3	5.68	50	MLG0603SR13JTD25
150	±3%	5	100	0.64	0.77	8.0	6.24	50	MLG0603SR15HTD25
150	±5%	5	100	0.64	0.77	8.0	6.24	50	MLG0603SR15JTD25
160	±3%	5	100	0.60	0.73	8.3	6.67	50	MLG0603SR16HTD25
160	±5%	5	100	0.60	0.73	8.3	6.67	50	MLG0603SR16JTD25
180	±3%	5	100	0.56	0.68	8.5	6.99	50	MLG0603SR18HTD25
180	±5%	5	100	0.56	0.68	8.5	6.99	50	MLG0603SR18JTD25

* Please contact us for ±2% inductance tolerance (code G) products.

○ 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.

• All specifications are subject to change without notice.

MLG_{series} **MLG0603S 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	
0.3	0.3	0.3	0.3	0.3	14min.	18min.	29min.	32min.	35min.	MLG0603S0N3CTD25
0.4	0.4	0.4	0.4	0.4	14min.	18min.	29min.	32min.	35min.	MLG0603S0N4BTD25
0.4	0.4	0.4	0.4	0.4	14min.	18min.	29min.	32min.	35min.	MLG0603S0N4CTD25
0.5	0.5	0.5	0.5	0.5	14	18	29	32	35	MLG0603S0N5BTD25
0.5	0.5	0.5	0.5	0.5	14	18	29	32	35	MLG0603S0N5CTD25
0.6	0.6	0.5	0.5	0.5	16	20	33	34	39	MLG0603S0N6BTD25
0.6	0.6	0.5	0.5	0.5	16	20	33	34	39	MLG0603S0N6CTD25
0.7	0.6	0.6	0.6	0.6	16	21	33	35	39	MLG0603S0N7BTD25
0.7	0.6	0.6	0.6	0.6	16	21	33	35	39	MLG0603S0N7CTD25
0.7	0.7	0.7	0.7	0.7	15	20	32	34	38	MLG0603S0N8BTD25
0.7	0.7	0.7	0.7	0.7	15	20	32	34	38	MLG0603S0N8CTD25
0.8	0.8	0.8	0.8	0.8	15	19	30	32	35	MLG0603S0N9BTD25
0.8	0.8	0.8	0.8	0.8	15	19	30	32	35	MLG0603S0N9CTD25
0.9	0.9	0.9	0.9	0.9	14	18	29	30	34	MLG0603S1N0BTD25
0.9	0.9	0.9	0.9	0.9	14	18	29	30	34	MLG0603S1N0CTD25
0.9	0.9	0.9	0.9	0.9	14	18	29	30	34	MLG0603S1N0STD25
1.0	1.0	1.0	1.0	1.0	14	19	29	31	34	MLG0603S1N1BTD25
1.0	1.0	1.0	1.0	1.0	14	19	29	31	34	MLG0603S1N1CTD25
1.0	1.0	1.0	1.0	1.0	14	19	29	31	34	MLG0603S1N1STD25
1.1	1.1	1.1	1.1	1.1	14	18	29	30	34	MLG0603S1N2BTD25
1.1	1.1	1.1	1.1	1.1	14	18	29	30	34	MLG0603S1N2CTD25
1.1	1.1	1.1	1.1	1.1	14	18	29	30	34	MLG0603S1N2STD25
1.2	1.2	1.2	1.2	1.2	14	18	29	30	33	MLG0603S1N3BTD25
1.2	1.2	1.2	1.2	1.2	14	18	29	30	33	MLG0603S1N3CTD25
1.2	1.2	1.2	1.2	1.2	14	18	29	30	33	MLG0603S1N3STD25
1.4	1.4	1.4	1.4	1.4	15	19	29	30	34	MLG0603S1N5BTD25
1.4	1.4	1.4	1.4	1.4	15	19	29	30	34	MLG0603S1N5CTD25
1.4	1.4	1.4	1.4	1.4	15	19	29	30	34	MLG0603S1N5STD25
1.5	1.5	1.5	1.5	1.5	14	18	29	30	33	MLG0603S1N6BTD25
1.5	1.5	1.5	1.5	1.5	14	18	29	30	33	MLG0603S1N6CTD25
1.5	1.5	1.5	1.5	1.5	14	18	29	30	33	MLG0603S1N6STD25
1.7	1.7	1.7	1.7	1.7	15	19	29	30	33	MLG0603S1N8BTD25
1.7	1.7	1.7	1.7	1.7	15	19	29	30	33	MLG0603S1N8CTD25
1.7	1.7	1.7	1.7	1.7	15	19	29	30	33	MLG0603S1N8STD25
1.9	1.9	1.9	1.9	1.9	14	18	28	29	32	MLG0603S2N0BTD25
1.9	1.9	1.9	1.9	1.9	14	18	28	29	32	MLG0603S2N0CTD25
1.9	1.9	1.9	1.9	1.9	14	18	28	29	32	MLG0603S2N0STD25
2.1	2	2.1	2.1	2.1	14	18	27	28	31	MLG0603S2N2BTD25
2.1	2	2.1	2.1	2.1	14	18	27	28	31	MLG0603S2N2CTD25
2.1	2	2.1	2.1	2.1	14	18	27	28	31	MLG0603S2N2STD25
2.2	2.2	2.2	2.3	2.3	14	18	27	29	32	MLG0603S2N4BTD25
2.2	2.2	2.2	2.3	2.3	14	18	27	29	32	MLG0603S2N4CTD25
2.2	2.2	2.2	2.3	2.3	14	18	27	29	32	MLG0603S2N4STD25

* Please contact us for $\pm 2\%$ inductance tolerance (code G) products.

○ Measurement equipment

Product No.	Manufacturer
4291B+16197A	Agilent Technologies

* Equivalent measurement equipment may be used.

MLG_{series} **MLG0603S 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	
2.5	2.5	2.6	2.6	2.7	15	19	28	29	31	MLG0603S2N7BTD25
2.5	2.5	2.6	2.6	2.7	15	19	28	29	31	MLG0603S2N7CTD25
2.5	2.5	2.6	2.6	2.7	15	19	28	29	31	MLG0603S2N7STD25
2.8	2.8	2.9	2.9	3	15	19	29	31	33	MLG0603S3N0BTD25
2.8	2.8	2.9	2.9	3	15	19	29	31	33	MLG0603S3N0CTD25
2.8	2.8	2.9	2.9	3	15	19	29	31	33	MLG0603S3N0STD25
3.1	3.1	3.2	3.3	3.4	15	19	28	29	31	MLG0603S3N3BTD25
3.1	3.1	3.2	3.3	3.4	15	19	28	29	31	MLG0603S3N3CTD25
3.1	3.1	3.2	3.3	3.4	15	19	28	29	31	MLG0603S3N3STD25
3.4	3.4	3.5	3.6	3.7	14	18	26	27	29	MLG0603S3N6BTD25
3.4	3.4	3.5	3.6	3.7	14	18	26	27	29	MLG0603S3N6CTD25
3.4	3.4	3.5	3.6	3.7	14	18	26	27	29	MLG0603S3N6STD25
3.7	3.7	3.8	3.9	4.1	15	19	29	29	32	MLG0603S3N9BTD25
3.7	3.7	3.8	3.9	4.1	15	19	29	29	32	MLG0603S3N9CTD25
3.7	3.7	3.8	3.9	4.1	15	19	29	29	32	MLG0603S3N9STD25
4.1	4.1	4.3	4.4	4.6	14	18	27	27	29	MLG0603S4N3HTD25
4.1	4.1	4.3	4.4	4.6	14	18	27	27	29	MLG0603S4N3STD25
4.4	4.4	4.8	4.9	5.2	15	20	28	29	30	MLG0603S4N7STD25
4.4	4.4	4.8	4.9	5.2	15	20	28	29	30	MLG0603S4N7HTD25
4.8	4.8	5.1	5.3	5.6	14	18	25	26	27	MLG0603S5N1HTD25
4.8	4.8	5.1	5.3	5.6	14	18	25	26	27	MLG0603S5N1STD25
5.3	5.3	5.7	5.9	6.4	16	20	27	28	29	MLG0603S5N6STD25
5.3	5.3	5.7	5.9	6.4	16	20	27	28	29	MLG0603S5N6HTD25
5.9	5.9	6.5	6.8	7.5	15	18	25	25	26	MLG0603S6N2STD25
5.9	5.9	6.5	6.8	7.5	15	18	25	25	26	MLG0603S6N2HTD25
6.4	6.5	7.4	7.8	8.7	15	19	26	26	25	MLG0603S6N8HTD25
6.4	6.5	7.4	7.8	8.7	15	19	26	26	25	MLG0603S6N8JTD25
7.1	7.1	7.8	8	8.7	14	18	25	26	26	MLG0603S7N5HTD25
7.1	7.1	7.8	8	8.7	14	18	25	26	26	MLG0603S7N5JTD25
7.8	7.8	8.8	9.3	10.4	15	18	24	24	24	MLG0603S8N2HTD25
7.8	7.8	8.8	9.3	10.4	15	18	24	24	24	MLG0603S8N2JTD25
8.6	8.6	9.8	10.3	11.5	14	17	22	22	22	MLG0603S9N1HTD25
8.6	8.6	9.8	10.3	11.5	14	17	22	22	22	MLG0603S9N1JTD25
10	10	12	12	15	15	18	23	22	21	MLG0603S10NHTD25
10	10	12	12	15	15	18	23	22	21	MLG0603S10NJTD25
10	11	13	14	16	15	18	22	22	20	MLG0603S11NHTD25
10	11	13	14	16	15	18	22	22	20	MLG0603S11NJTD25
11	12	14	15	19	16	19	24	23	20	MLG0603S12NHTD25
11	12	14	15	19	16	19	24	23	20	MLG0603S12NJTD25
12	13	16	17	22	14	16	19	18	15	MLG0603S13NHTD25
12	13	16	17	22	14	16	19	18	15	MLG0603S13NJTD25

* Please contact us for $\pm 2\%$ inductance tolerance (code G) products.

○ Measurement equipment

Product No.	Manufacturer
4291B+16197A	Agilent Technologies

* Equivalent measurement equipment may be used.

MLG_{series} **MLG0603S 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	
14	15	20	23	33	15	19	20	18	14	MLG0603S15NHTD25
14	15	20	23	33	15	19	20	18	14	MLG0603S15NJTD25
15	16	22	25	37	14	16	16	15	11	MLG0603S16NHTD25
15	16	22	25	37	14	16	16	15	11	MLG0603S16NJTD25
17	18	28	35		14	17	15	13		MLG0603S18NHTD25
17	18	28	35		14	17	15	13		MLG0603S18NJTD25
19	20	32			13	16	14			MLG0603S20NHTD25
19	20	32			13	16	14			MLG0603S20NJTD25
21	23	40			15	17	13			MLG0603S22NHTD25
21	23	40			15	17	13			MLG0603S22NJTD25
23	24	45			13	15	13			MLG0603S24NHTD25
23	24	45			13	15	13			MLG0603S24NJTD25
27	29				15	17				MLG0603S27NHTD25
27	29				15	17				MLG0603S27NJTD25
29	32				13	15				MLG0603S30NHTD25
29	32				13	15				MLG0603S30NJTD25
33	36				14	16				MLG0603S33NHTD25
33	36				14	16				MLG0603S33NJTD25
36	40				14	15				MLG0603S36NHTD25
36	40				14	15				MLG0603S36NJTD25
40	47				13	14				MLG0603S39NHTD25
40	47				13	14				MLG0603S39NJTD25
44	53				14	14				MLG0603S43NHTD25
44	53				14	14				MLG0603S43NJTD25
49	60				13	13				MLG0603S47NHTD25
49	60				13	13				MLG0603S47NJTD25
52	64				11	11				MLG0603S51NHTD25
52	64				11	11				MLG0603S51NJTD25
59	77				12	11				MLG0603S56NHTD25
59	77				12	11				MLG0603S56NJTD25
66	88				11	10				MLG0603S62NHTD25
66	88				11	10				MLG0603S62NJTD25
74	104				13	11				MLG0603S68NHTD25
74	104				13	11				MLG0603S68NJTD25
82	119				10	8				MLG0603S75NHTD25
82	119				10	8				MLG0603S75NJTD25
96	161				12	8				MLG0603S82NHTD25
96	161				12	8				MLG0603S82NJTD25
109					9					MLG0603S91NHTD25
109					9					MLG0603S91NJTD25
129					11					MLG0603SR10HTD25
129					11					MLG0603SR10JTD25

* Please contact us for $\pm 2\%$ inductance tolerance (code G) products.

○ Measurement equipment

Product No.	Manufacturer
4291B+16197A	Agilent Technologies

* Equivalent measurement equipment may be used.

MLG_{series} **MLG0603S 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	
134					10					MLG0603SR11HTD25
134					10					MLG0603SR11JTD25
156					9					MLG0603SR12HTD25
156					9					MLG0603SR12JTD25
172					8					MLG0603SR13HTD25
172					8					MLG0603SR13JTD25
223					7					MLG0603SR15HTD25
223					7					MLG0603SR15JTD25
238					7					MLG0603SR16HTD25
238					7					MLG0603SR16JTD25
318					6					MLG0603SR18HTD25
318					6					MLG0603SR18JTD25

* Please contact us for $\pm 2\%$ inductance tolerance (code G) products.

○ Measurement equipment

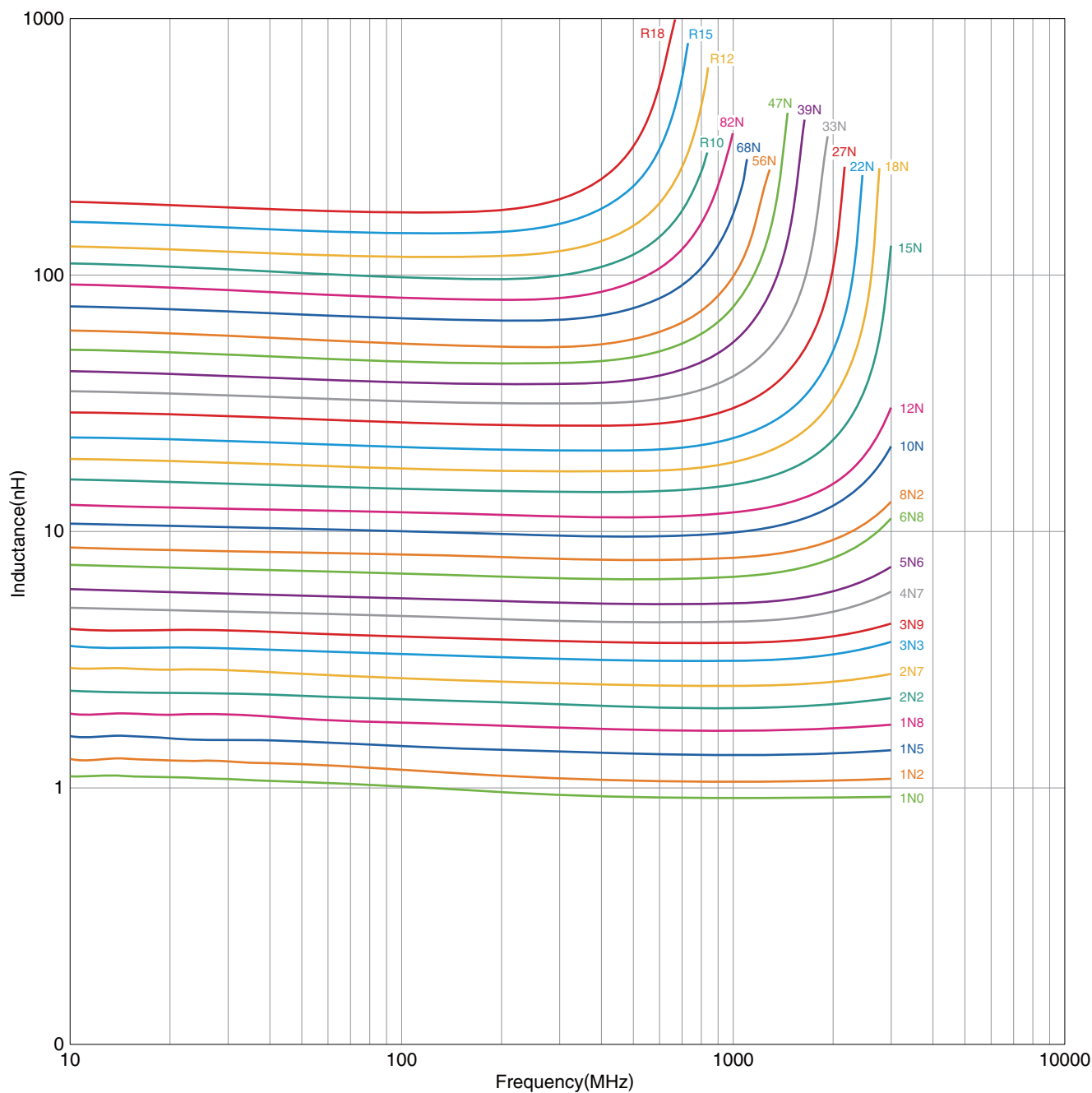
Product No.	Manufacturer
4291B+16197A	Agilent Technologies

* Equivalent measurement equipment may be used.

MLG_{series} **MLG0603S Type**

■ ELECTRICAL CHARACTERISTICS

□ L FREQUENCY CHARACTERISTICS GRAPH (EXAMPLE)



○ Measurement equipment

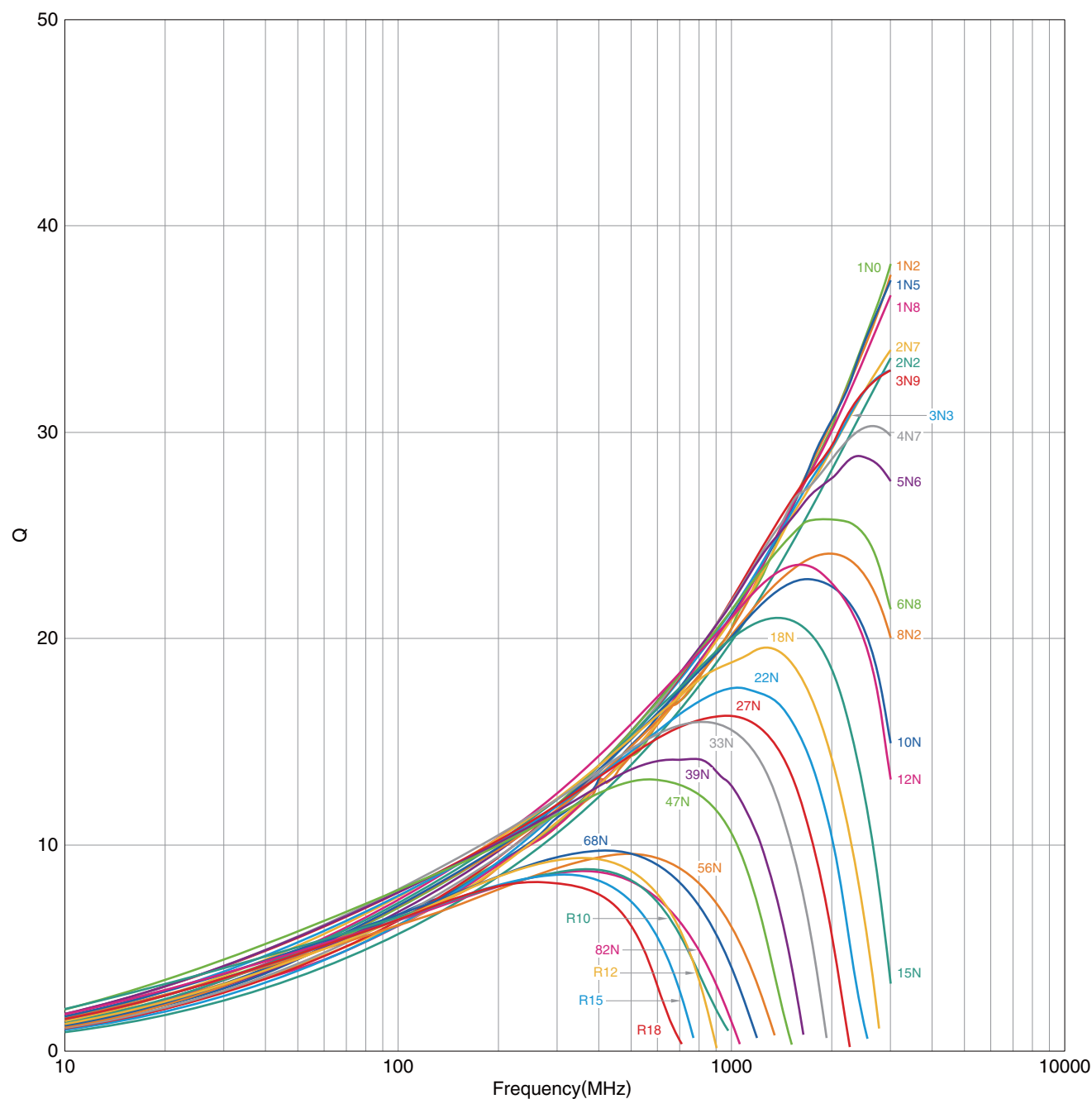
Product No.	Manufacturer
E4991A +16197A	Agilent Technologies

* Equivalent measurement equipment may be used.

MLG_{series} **MLG0603S Type**

■ ELECTRICAL CHARACTERISTICS

□ Q FREQUENCY CHARACTERISTICS GRAPH (EXAMPLE)



○ Measurement equipment

Product No.	Manufacturer
E4991A +16197A	Agilent Technologies

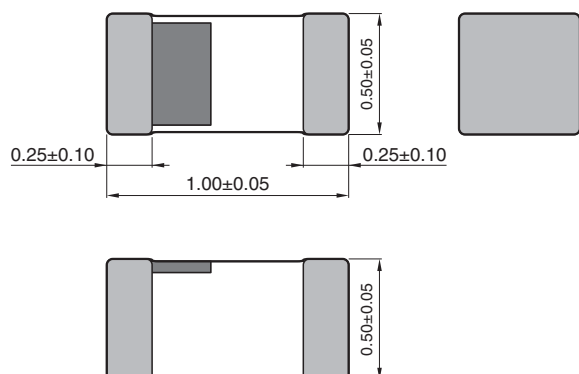
* Equivalent measurement equipment may be used.

MLG_{series}

MLG1005S Type



■ SHAPE & DIMENSIONS



Dimensions in mm

■ RECOMMENDED LAND PATTERN



Dimensions in mm

MLG_{series} **MLG1005S Type**

■ ELECTRICAL CHARACTERISTICS

□ CHARACTERISTICS SPECIFICATION TABLE

L (nH)	Tolerance	Q min.	L, Q measuring frequency (MHz)	Self-resonant frequency (GHz)		DC resistance (Ω)		Rated current (mA) max.	Part No.*
				min.	typ.	max.	typ.		
0.3	$\pm 0.1\text{nH}$	—	100	10.0	20up	0.10	0.01	1000	MLG1005S0N3BTD25
0.3	$\pm 0.2\text{nH}$	—	100	10.0	20up	0.10	0.01	1000	MLG1005S0N3CTD25
0.4	$\pm 0.1\text{nH}$	—	100	10.0	20up	0.10	0.01	1000	MLG1005S0N4BTD25
0.4	$\pm 0.2\text{nH}$	—	100	10.0	20up	0.10	0.01	1000	MLG1005S0N4CTD25
0.5	$\pm 0.1\text{nH}$	—	100	10.0	20up	0.10	0.01	1000	MLG1005S0N5BTD25
0.5	$\pm 0.2\text{nH}$	—	100	10.0	20up	0.10	0.01	1000	MLG1005S0N5CTD25
0.6	$\pm 0.1\text{nH}$	—	100	10.0	20up	0.10	0.01	1000	MLG1005S0N6BTD25
0.6	$\pm 0.2\text{nH}$	—	100	10.0	20up	0.10	0.01	1000	MLG1005S0N6CTD25
0.7	$\pm 0.1\text{nH}$	—	100	10.0	18.7	0.10	0.02	1000	MLG1005S0N7BTD25
0.7	$\pm 0.2\text{nH}$	—	100	10.0	18.7	0.10	0.02	1000	MLG1005S0N7CTD25
0.8	$\pm 0.1\text{nH}$	—	100	10.0	16.4	0.10	0.02	1000	MLG1005S0N8BTD25
0.8	$\pm 0.2\text{nH}$	—	100	10.0	16.4	0.10	0.02	1000	MLG1005S0N8CTD25
0.9	$\pm 0.1\text{nH}$	—	100	10.0	17.7	0.10	0.04	1000	MLG1005S0N9BTD25
0.9	$\pm 0.2\text{nH}$	—	100	10.0	17.7	0.10	0.04	1000	MLG1005S0N9CTD25
1.0	$\pm 0.1\text{nH}$	7	100	10.0	13.8	0.10	0.04	1000	MLG1005S1N0BTD25
1.0	$\pm 0.2\text{nH}$	7	100	10.0	13.8	0.10	0.04	1000	MLG1005S1N0CTD25
1.0	$\pm 0.2\text{nH}$	7	100	10.0	13.8	0.10	0.04	1000	MLG1005S1N0CTD25
1.1	$\pm 0.1\text{nH}$	7	100	10.0	19.3	0.10	0.03	1000	MLG1005S1N1BTD25
1.1	$\pm 0.2\text{nH}$	7	100	10.0	19.3	0.10	0.03	1000	MLG1005S1N1CTD25
1.1	$\pm 0.3\text{nH}$	7	100	10.0	19.3	0.10	0.03	1000	MLG1005S1N1STD25
1.2	$\pm 0.1\text{nH}$	7	100	10.0	11.6	0.10	0.04	1000	MLG1005S1N2BTD25
1.2	$\pm 0.2\text{nH}$	7	100	10.0	11.6	0.10	0.04	1000	MLG1005S1N2CTD25
1.2	$\pm 0.3\text{nH}$	7	100	10.0	11.6	0.10	0.04	1000	MLG1005S1N2STD25
1.3	$\pm 0.1\text{nH}$	7	100	8.00	11.7	0.10	0.04	1000	MLG1005S1N3BTD25
1.3	$\pm 0.2\text{nH}$	7	100	8.00	11.7	0.10	0.04	1000	MLG1005S1N3CTD25
1.3	$\pm 0.3\text{nH}$	7	100	8.00	11.7	0.10	0.04	1000	MLG1005S1N3STD25
1.5	$\pm 0.1\text{nH}$	7	100	8.00	9.6	0.10	0.06	1000	MLG1005S1N5BTD25
1.5	$\pm 0.2\text{nH}$	7	100	8.00	9.6	0.10	0.06	1000	MLG1005S1N5CTD25
1.5	$\pm 0.3\text{nH}$	7	100	8.00	9.6	0.10	0.06	1000	MLG1005S1N5STD25
1.6	$\pm 0.1\text{nH}$	7	100	7.50	9.4	0.12	0.05	1000	MLG1005S1N6BTD25
1.6	$\pm 0.2\text{nH}$	7	100	7.50	9.4	0.12	0.05	1000	MLG1005S1N6CTD25
1.6	$\pm 0.3\text{nH}$	7	100	7.50	9.4	0.12	0.05	1000	MLG1005S1N6STD25
1.8	$\pm 0.1\text{nH}$	7	100	8.00	10.3	0.15	0.06	900	MLG1005S1N8BTD25
1.8	$\pm 0.2\text{nH}$	7	100	8.00	10.3	0.15	0.06	900	MLG1005S1N8CTD25
1.8	$\pm 0.3\text{nH}$	7	100	8.00	10.3	0.15	0.06	900	MLG1005S1N8STD25
2.0	$\pm 0.1\text{nH}$	7	100	7.50	9.3	0.15	0.07	900	MLG1005S2N0BTD25
2.0	$\pm 0.2\text{nH}$	7	100	7.50	9.3	0.15	0.07	900	MLG1005S2N0CTD25
2.0	$\pm 0.3\text{nH}$	7	100	7.50	9.3	0.15	0.07	900	MLG1005S2N0STD25
2.2	$\pm 0.1\text{nH}$	7	100	7.00	8.6	0.15	0.08	900	MLG1005S2N2BTD25
2.2	$\pm 0.2\text{nH}$	7	100	7.00	8.6	0.15	0.08	900	MLG1005S2N2CTD25
2.2	$\pm 0.3\text{nH}$	7	100	7.00	8.6	0.15	0.08	900	MLG1005S2N2STD25
2.4	$\pm 0.1\text{nH}$	7	100	7.00	8.2	0.15	0.08	800	MLG1005S2N4BTD25
2.4	$\pm 0.2\text{nH}$	7	100	7.00	8.2	0.15	0.08	800	MLG1005S2N4CTD25
2.4	$\pm 0.3\text{nH}$	7	100	7.00	8.2	0.15	0.08	800	MLG1005S2N4STD25

* Please contact us for $\pm 2\%$ inductance tolerance (code G) products.

○ 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.

MLG_{series} **MLG1005S Type**

■ ELECTRICAL CHARACTERISTICS

□ CHARACTERISTICS SPECIFICATION TABLE

L (nH)	Tolerance	Q min.	L, Q measuring frequency (MHz)	Self-resonant frequency (GHz)		DC resistance (Ω)		Rated current (mA) max.	Part No.*
				min.	typ.	max.	typ.		
2.7	$\pm 0.1\text{nH}$	7	100	6.00	7.3	0.15	0.08	800	MLG1005S2N7BTD25
2.7	$\pm 0.2\text{nH}$	7	100	6.00	7.3	0.15	0.08	800	MLG1005S2N7CTD25
2.7	$\pm 0.3\text{nH}$	7	100	6.00	7.3	0.15	0.08	800	MLG1005S2N7STD25
3.0	$\pm 0.1\text{nH}$	7	100	5.50	6.8	0.20	0.09	800	MLG1005S3N0BTD25
3.0	$\pm 0.2\text{nH}$	7	100	5.50	6.8	0.20	0.09	800	MLG1005S3N0CTD25
3.0	$\pm 0.3\text{nH}$	7	100	5.50	6.8	0.20	0.09	800	MLG1005S3N0STD25
3.3	$\pm 0.1\text{nH}$	8	100	5.00	6.1	0.20	0.09	800	MLG1005S3N3BTD25
3.3	$\pm 0.2\text{nH}$	8	100	5.00	6.1	0.20	0.09	800	MLG1005S3N3CTD25
3.3	$\pm 0.3\text{nH}$	8	100	5.00	6.1	0.20	0.09	800	MLG1005S3N3STD25
3.6	$\pm 0.1\text{nH}$	8	100	5.00	6.7	0.20	0.09	700	MLG1005S3N6BTD25
3.6	$\pm 0.2\text{nH}$	8	100	5.00	6.7	0.20	0.09	700	MLG1005S3N6CTD25
3.6	$\pm 0.3\text{nH}$	8	100	5.00	6.7	0.20	0.09	700	MLG1005S3N6STD25
3.9	$\pm 0.1\text{nH}$	8	100	5.00	6.5	0.20	0.11	700	MLG1005S3N9BTD25
3.9	$\pm 0.2\text{nH}$	8	100	5.00	6.5	0.20	0.11	700	MLG1005S3N9CTD25
3.9	$\pm 0.3\text{nH}$	8	100	5.00	6.5	0.20	0.11	700	MLG1005S3N9STD25
4.3	$\pm 0.2\text{nH}$	8	100	4.50	6.0	0.20	0.11	700	MLG1005S4N3CTD25
4.3	$\pm 0.3\text{nH}$	8	100	4.50	6.0	0.20	0.11	700	MLG1005S4N3STD25
4.7	$\pm 0.2\text{nH}$	8	100	4.50	5.4	0.25	0.12	700	MLG1005S4N7CTD25
4.7	$\pm 0.3\text{nH}$	8	100	4.50	5.4	0.25	0.12	700	MLG1005S4N7STD25
5.1	$\pm 0.2\text{nH}$	8	100	4.00	5.0	0.25	0.13	600	MLG1005S5N1CTD25
5.1	$\pm 0.3\text{nH}$	8	100	4.00	5.0	0.25	0.13	600	MLG1005S5N1STD25
5.6	$\pm 0.2\text{nH}$	8	100	4.00	5.3	0.25	0.14	600	MLG1005S5N6CTD25
5.6	$\pm 0.3\text{nH}$	8	100	4.00	5.3	0.25	0.14	600	MLG1005S5N6STD25
6.2	$\pm 3\%$	8	100	4.00	4.7	0.25	0.16	600	MLG1005S6N2HTD25
6.2	$\pm 0.3\text{nH}$	8	100	4.00	4.7	0.25	0.16	600	MLG1005S6N2STD25
6.8	$\pm 3\%$	8	100	3.50	4.4	0.25	0.15	600	MLG1005S6N8HTD25
6.8	$\pm 5\%$	8	100	3.50	4.4	0.25	0.15	600	MLG1005S6N8JTD25
7.5	$\pm 3\%$	8	100	3.00	4.1	0.25	0.15	500	MLG1005S7N5HTD25
7.5	$\pm 5\%$	8	100	3.00	4.1	0.25	0.15	500	MLG1005S7N5JTD25
8.2	$\pm 3\%$	8	100	3.00	4.0	0.30	0.19	500	MLG1005S8N2HTD25
8.2	$\pm 5\%$	8	100	3.00	4.0	0.30	0.19	500	MLG1005S8N2JTD25
9.1	$\pm 3\%$	8	100	3.00	3.8	0.30	0.20	500	MLG1005S9N1HTD25
9.1	$\pm 5\%$	8	100	3.00	3.8	0.30	0.20	500	MLG1005S9N1JTD25
10	$\pm 3\%$	8	100	2.50	3.4	0.35	0.22	500	MLG1005S10NHTD25
10	$\pm 5\%$	8	100	2.50	3.4	0.35	0.22	500	MLG1005S10NJTD25
11	$\pm 3\%$	8	100	2.50	3.5	0.40	0.28	400	MLG1005S11NHTD25
11	$\pm 5\%$	8	100	2.50	3.5	0.40	0.28	400	MLG1005S11NJTD25
12	$\pm 3\%$	8	100	2.50	3.0	0.40	0.25	400	MLG1005S12NHTD25
12	$\pm 5\%$	8	100	2.50	3.0	0.40	0.25	400	MLG1005S12NJTD25
13	$\pm 3\%$	8	100	2.40	2.9	0.50	0.26	400	MLG1005S13NHTD25
13	$\pm 5\%$	8	100	2.40	2.9	0.50	0.26	400	MLG1005S13NJTD25
15	$\pm 3\%$	8	100	2.20	2.8	0.55	0.35	400	MLG1005S15NHTD25
15	$\pm 5\%$	8	100	2.20	2.8	0.55	0.35	400	MLG1005S15NJTD25

* Please contact us for $\pm 2\%$ inductance tolerance (code G) products.

○ 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.

MLG_{series} **MLG1005S Type**

■ ELECTRICAL CHARACTERISTICS

□ CHARACTERISTICS SPECIFICATION TABLE

L (nH)	Tolerance	Q min.	L, Q measuring frequency (MHz)	Self-resonant frequency (GHz)		DC resistance (Ω)		Rated current (mA) max.	Part No.*
				min.	typ.	max.	typ.		
16	±3%	8	100	2.10	2.7	0.55	0.32	400	MLG1005S16NHTD25
16	±5%	8	100	2.10	2.7	0.55	0.32	400	MLG1005S16NJTD25
18	±3%	8	100	2.00	2.5	0.60	0.40	350	MLG1005S18NHTD25
18	±5%	8	100	2.00	2.5	0.60	0.40	350	MLG1005S18NJTD25
20	±3%	8	100	1.90	2.4	0.60	0.38	350	MLG1005S20NHTD25
20	±5%	8	100	1.90	2.4	0.60	0.38	350	MLG1005S20NJTD25
22	±3%	8	100	1.70	2.2	0.70	0.46	350	MLG1005S22NHTD25
22	±5%	8	100	1.70	2.2	0.70	0.46	350	MLG1005S22NJTD25
24	±3%	8	100	1.70	2.1	0.70	0.43	350	MLG1005S24NHTD25
24	±5%	8	100	1.70	2.1	0.70	0.43	350	MLG1005S24NJTD25
27	±3%	8	100	1.60	2.0	0.80	0.53	300	MLG1005S27NHTD25
27	±5%	8	100	1.60	2.0	0.80	0.53	300	MLG1005S27NJTD25
30	±3%	8	100	1.50	1.9	0.80	0.50	300	MLG1005S30NHTD25
30	±5%	8	100	1.50	1.9	0.80	0.50	300	MLG1005S30NJTD25
33	±3%	8	100	1.40	1.8	0.90	0.59	300	MLG1005S33NHTD25
33	±5%	8	100	1.40	1.8	0.90	0.59	300	MLG1005S33NJTD25
36	±3%	8	100	1.30	1.7	1.00	0.62	250	MLG1005S36NHTD25
36	±5%	8	100	1.30	1.7	1.00	0.62	250	MLG1005S36NJTD25
39	±3%	8	100	1.20	1.6	1.00	0.65	250	MLG1005S39NHTD25
39	±5%	8	100	1.20	1.6	1.00	0.65	250	MLG1005S39NJTD25
43	±3%	8	100	1.20	1.6	1.10	0.67	250	MLG1005S43NHTD25
43	±5%	8	100	1.20	1.6	1.10	0.67	250	MLG1005S43NJTD25
47	±3%	8	100	1.10	1.4	1.20	0.75	250	MLG1005S47NHTD25
47	±5%	8	100	1.10	1.4	1.20	0.75	250	MLG1005S47NJTD25
51	±3%	8	100	1.10	1.5	1.20	0.72	250	MLG1005S51NHTD25
51	±5%	8	100	1.10	1.5	1.20	0.72	250	MLG1005S51NJTD25
56	±3%	8	100	1.00	1.3	1.30	0.83	200	MLG1005S56NHTD25
56	±5%	8	100	1.00	1.3	1.30	0.83	200	MLG1005S56NJTD25
62	±3%	8	100	1.00	1.3	1.40	0.85	200	MLG1005S62NHTD25
62	±5%	8	100	1.00	1.3	1.40	0.85	200	MLG1005S62NJTD25
68	±3%	8	100	0.80	1.1	1.50	0.87	200	MLG1005S68NHTD25
68	±5%	8	100	0.80	1.1	1.50	0.87	200	MLG1005S68NJTD25
75	±3%	8	100	0.75	1.1	1.50	0.93	200	MLG1005S75NHTD25
75	±5%	8	100	0.75	1.1	1.50	0.93	200	MLG1005S75NJTD25
82	±3%	8	100	0.70	1.0	1.60	1.01	200	MLG1005S82NHTD25
82	±5%	8	100	0.70	1.0	1.60	1.01	200	MLG1005S82NJTD25
91	±3%	8	100	0.70	0.9	1.80	1.14	200	MLG1005S91NHTD25
91	±5%	8	100	0.70	0.9	1.80	1.14	200	MLG1005S91NJTD25
100	±3%	8	100	0.70	0.9	2.00	1.37	200	MLG1005SR10HTD25
100	±5%	8	100	0.70	0.9	2.00	1.37	200	MLG1005SR10JTD25
110	±3%	8	100	0.70	0.9	2.20	1.48	150	MLG1005SR11HTD25
110	±5%	8	100	0.70	0.9	2.20	1.48	150	MLG1005SR11JTD25
120	±3%	8	100	0.60	0.8	2.20	1.48	150	MLG1005SR12HTD25
120	±5%	8	100	0.60	0.8	2.20	1.48	150	MLG1005SR12JTD25

* Please contact us for ±2% inductance tolerance (code G) products.

○ 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.

MLG_{series} **MLG1005S Type**

■ ELECTRICAL CHARACTERISTICS

□ CHARACTERISTICS SPECIFICATION TABLE

L (nH)	Tolerance	Q min.	L, Q measuring frequency (MHz)	Self-resonant frequency (GHz)		DC resistance (Ω)		Rated current (mA) max.	Part No.*
				min.	typ.	max.	typ.		
130	±3%	8	100	0.60	0.8	2.50	1.68	150	MLG1005SR13HTD25
130	±5%	8	100	0.60	0.8	2.50	1.68	150	MLG1005SR13JTD25
150	±3%	8	100	0.55	0.7	3.50	2.44	150	MLG1005SR15HTD25
150	±5%	8	100	0.55	0.7	3.50	2.44	150	MLG1005SR15JTD25
160	±3%	8	100	0.50	0.6	3.80	2.74	150	MLG1005SR16HTD25
160	±5%	8	100	0.50	0.6	3.80	2.74	150	MLG1005SR16JTD25
180	±3%	8	100	0.50	0.6	3.80	2.88	150	MLG1005SR18HTD25
180	±5%	8	100	0.50	0.6	3.80	2.88	150	MLG1005SR18JTD25
200	±3%	8	100	0.42	0.5	4.20	3.15	100	MLG1005SR20HTD25
200	±5%	8	100	0.42	0.5	4.20	3.15	100	MLG1005SR20JTD25
220	±3%	8	100	0.45	0.5	4.20	3.02	100	MLG1005SR22HTD25
220	±5%	8	100	0.45	0.5	4.20	3.02	100	MLG1005SR22JTD25
240	±3%	8	100	0.40	0.5	4.80	3.42	100	MLG1005SR24HTD25
240	±5%	8	100	0.40	0.5	4.80	3.42	100	MLG1005SR24JTD25
270	±3%	8	100	0.40	0.5	4.80	3.54	100	MLG1005SR27HTD25
270	±5%	8	100	0.40	0.5	4.80	3.54	100	MLG1005SR27JTD25
300	±3%	6	50	0.35	0.4	6.50	4.82	50	MLG1005SR30HTD25
300	±5%	6	50	0.35	0.4	6.50	4.82	50	MLG1005SR30JTD25
330	±3%	6	50	0.35	0.4	7.00	5.21	50	MLG1005SR33HTD25
330	±5%	6	50	0.35	0.4	7.00	5.21	50	MLG1005SR33JTD25
360	±3%	6	50	0.30	0.4	7.50	5.39	50	MLG1005SR36HTD25
360	±5%	6	50	0.30	0.4	7.50	5.39	50	MLG1005SR36JTD25
390	±3%	6	50	0.30	0.4	8.00	5.97	50	MLG1005SR39HTD25
390	±5%	6	50	0.30	0.4	8.00	5.97	50	MLG1005SR39JTD25

* Please contact us for ±2% inductance tolerance (code G) products.

○ 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.

MLG_{series} **MLG1005S 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	
0.3	0.3	0.3	0.3	0.3	22min.	27min.	46min.	49min.	53min.	MLG1005S0N3BTD25
0.3	0.3	0.3	0.3	0.3	22min.	27min.	46min.	49min.	53min.	MLG1005S0N3CTD25
0.4	0.4	0.4	0.4	0.4	22min.	27min.	46min.	49min.	53min.	MLG1005S0N4BTD25
0.4	0.4	0.4	0.4	0.4	22min.	27min.	46min.	49min.	53min.	MLG1005S0N4CTD25
0.5	0.5	0.5	0.5	0.5	22min.	27min.	46min.	49min.	53min.	MLG1005S0N5BTD25
0.5	0.5	0.5	0.5	0.5	22min.	27min.	46min.	49min.	53min.	MLG1005S0N5CTD25
0.6	0.6	0.6	0.6	0.6	22	27	46	49	53	MLG1005S0N6BTD25
0.6	0.6	0.6	0.6	0.6	22	27	46	49	53	MLG1005S0N6CTD25
0.7	0.7	0.7	0.7	0.7	22	28	45	49	54	MLG1005S0N7BTD25
0.7	0.7	0.7	0.7	0.7	22	28	45	49	54	MLG1005S0N7CTD25
0.8	0.8	0.8	0.8	0.8	26	34	57	60	66	MLG1005S0N8BTD25
0.8	0.8	0.8	0.8	0.8	26	34	57	60	66	MLG1005S0N8CTD25
0.9	0.8	0.8	0.8	0.8	21	27	44	47	53	MLG1005S0N9BTD25
0.9	0.8	0.8	0.8	0.8	21	27	44	47	53	MLG1005S0N9CTD25
0.9	0.9	0.9	0.9	0.9	22	29	48	50	56	MLG1005S1N0BTD25
0.9	0.9	0.9	0.9	0.9	22	29	48	50	56	MLG1005S1N0CTD25
0.9	0.9	0.9	0.9	0.9	22	29	48	50	56	MLG1005S1N0STD25
1.0	1.0	1.0	1.0	1.0	23	29	47	50	57	MLG1005S1N1BTD25
1.0	1.0	1.0	1.0	1.0	23	29	47	50	57	MLG1005S1N1CTD25
1.0	1.0	1.0	1.0	1.0	23	29	47	50	57	MLG1005S1N1STD25
1.1	1.1	1.1	1.1	1.1	23	29	48	50	56	MLG1005S1N2BTD25
1.1	1.1	1.1	1.1	1.1	23	29	48	50	56	MLG1005S1N2CTD25
1.1	1.1	1.1	1.1	1.1	23	29	48	50	56	MLG1005S1N2STD25
1.2	1.2	1.2	1.2	1.2	22	27	44	47	53	MLG1005S1N3BTD25
1.2	1.2	1.2	1.2	1.2	22	27	44	47	53	MLG1005S1N3CTD25
1.2	1.2	1.2	1.2	1.2	22	27	44	47	53	MLG1005S1N3STD25
1.4	1.4	1.4	1.5	1.5	23	29	47	50	56	MLG1005S1N5BTD25
1.4	1.4	1.4	1.5	1.5	23	29	47	50	56	MLG1005S1N5CTD25
1.4	1.4	1.4	1.5	1.5	23	29	47	50	56	MLG1005S1N5STD25
1.5	1.5	1.5	1.6	1.6	23	29	46	49	54	MLG1005S1N6BTD25
1.5	1.5	1.5	1.6	1.6	23	29	46	49	54	MLG1005S1N6CTD25
1.5	1.5	1.5	1.6	1.6	23	29	46	49	54	MLG1005S1N6STD25
1.7	1.7	1.7	1.7	1.7	20	26	41	43	49	MLG1005S1N8BTD25
1.7	1.7	1.7	1.7	1.7	20	26	41	43	49	MLG1005S1N8CTD25
1.7	1.7	1.7	1.7	1.7	20	26	41	43	49	MLG1005S1N8STD25
1.9	1.9	1.9	1.9	1.9	21	25	41	43	48	MLG1005S2N0BTD25
1.9	1.9	1.9	1.9	1.9	21	25	41	43	48	MLG1005S2N0CTD25
1.9	1.9	1.9	1.9	1.9	21	25	41	43	48	MLG1005S2N0STD25
2.1	2.1	2.1	2.1	2.2	22	27	44	47	52	MLG1005S2N2BTD25
2.1	2.1	2.1	2.1	2.2	22	27	44	47	52	MLG1005S2N2CTD25
2.1	2.1	2.1	2.1	2.2	22	27	44	47	52	MLG1005S2N2STD25

* Please contact us for $\pm 2\%$ inductance tolerance (code G) products.

○ Measurement equipment

Product No.	Manufacturer
4291B +16193A	Agilent Technologies

* Equivalent measurement equipment may be used.

MLG_{series} **MLG1005S 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	
2.3	2.3	2.3	2.3	2.4	21	26	42	44	49	MLG1005S2N4BTD25
2.3	2.3	2.3	2.3	2.4	21	26	42	44	49	MLG1005S2N4CTD25
2.3	2.3	2.3	2.3	2.4	21	26	42	44	49	MLG1005S2N4STD25
2.6	2.6	2.6	2.7	2.7	22	27	43	45	50	MLG1005S2N7BTD25
2.6	2.6	2.6	2.7	2.7	22	27	43	45	50	MLG1005S2N7CTD25
2.6	2.6	2.6	2.7	2.7	22	27	43	45	50	MLG1005S2N7STD25
2.9	2.9	3.0	3.0	3.1	24	29	47	49	54	MLG1005S3N0BTD25
2.9	2.9	3.0	3.0	3.1	24	29	47	49	54	MLG1005S3N0CTD25
2.9	2.9	3.0	3.0	3.1	24	29	47	49	54	MLG1005S3N0STD25
3.2	3.2	3.3	3.4	3.5	24	30	46	48	53	MLG1005S3N3BTD25
3.2	3.2	3.3	3.4	3.5	24	30	46	48	53	MLG1005S3N3CTD25
3.2	3.2	3.3	3.4	3.5	24	30	46	48	53	MLG1005S3N3STD25
3.4	3.4	3.6	3.6	3.8	21	26	40	42	46	MLG1005S3N6BTD25
3.4	3.4	3.6	3.6	3.8	21	26	40	42	46	MLG1005S3N6CTD25
3.4	3.4	3.6	3.6	3.8	21	26	40	42	46	MLG1005S3N6STD25
3.7	3.7	3.9	3.9	4.1	22	28	43	45	50	MLG1005S3N9BTD25
3.7	3.7	3.9	3.9	4.1	22	28	43	45	50	MLG1005S3N9CTD25
3.7	3.7	3.9	3.9	4.1	22	28	43	45	50	MLG1005S3N9STD25
4.1	4.1	4.3	4.4	4.6	24	30	47	49	53	MLG1005S4N3CTD25
4.1	4.1	4.3	4.4	4.6	24	30	47	49	53	MLG1005S4N3STD25
4.5	4.5	4.8	4.9	5.2	23	30	45	47	50	MLG1005S4N7CTD25
4.5	4.5	4.8	4.9	5.2	23	30	45	47	50	MLG1005S4N7STD25
4.9	4.9	5.4	5.6	6.1	23	29	42	43	44	MLG1005S5N1CTD25
4.9	4.9	5.4	5.6	6.1	23	29	42	43	44	MLG1005S5N1STD25
5.4	5.4	5.8	5.9	6.3	22	28	42	43	45	MLG1005S5N6CTD25
5.4	5.4	5.8	5.9	6.3	22	28	42	43	45	MLG1005S5N6STD25
6.0	6.0	6.8	7.1	7.8	24	29	42	43	43	MLG1005S6N2HTD25
6.0	6.0	6.8	7.1	7.8	24	29	42	43	43	MLG1005S6N2STD25
6.5	6.6	7.4	7.8	8.6	23	28	40	41	41	MLG1005S6N8HTD25
6.5	6.6	7.4	7.8	8.6	23	28	40	41	41	MLG1005S6N8JTD25
7.2	7.4	8.6	9.2	10.5	24	30	41	41	39	MLG1005S7N5HTD25
7.2	7.4	8.6	9.2	10.5	24	30	41	41	39	MLG1005S7N5JTD25
7.9	8.0	9.3	9.9	11.3	23	28	38	38	36	MLG1005S8N2HTD25
7.9	8.0	9.3	9.9	11.3	23	28	38	38	36	MLG1005S8N2JTD25
8.8	9.0	10.8	11.6	13.7	24	30	40	39	36	MLG1005S9N1HTD25
8.8	9.0	10.8	11.6	13.7	24	30	40	39	36	MLG1005S9N1JTD25
9.7	9.9	12.4	13.5	16.7	24	30	37	36	31	MLG1005S10NHTD25
9.7	9.9	12.4	13.5	16.7	24	30	37	36	31	MLG1005S10NJTD25
10.6	10.9	13.8	15.1	19	23	28	34	33	28	MLG1005S11NHTD25
10.6	10.9	13.8	15.1	19	23	28	34	33	28	MLG1005S11NJTD25
11.7	12.1	16.2	18.3		23	29	33	31		MLG1005S12NHTD25
11.7	12.1	16.2	18.3		23	29	33	31		MLG1005S12NJTD25

* Please contact us for $\pm 2\%$ inductance tolerance (code G) products.

○ Measurement equipment

Product No.	Manufacturer
4291B +16193A	Agilent Technologies

* Equivalent measurement equipment may be used.

MLG_{series} **MLG1005S 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	
12.6	13.0	18.3	21.3		20	24	25	22		MLG1005S13NHTD25
12.6	13.0	18.3	21.3		20	24	25	22		MLG1005S13NJTD25
14.7	15.3	22.0	26.0		23	28	29	26		MLG1005S15NHTD25
14.7	15.3	22.0	26.0		23	28	29	26		MLG1005S15NJTD25
15.6	16.2	24.1	29.0		22	26	26	22		MLG1005S16NHTD25
15.6	16.2	24.1	29.0		22	26	26	22		MLG1005S16NJTD25
17.7	18.6	29.0			23	28	26			MLG1005S18NHTD25
17.7	18.6	29.0			23	28	26			MLG1005S18NJTD25
19.7	20.8	36.8			21	25	21			MLG1005S20NHTD25
19.7	20.8	36.8			21	25	21			MLG1005S20NJTD25
21.8	23.3				22	27				MLG1005S22NHTD25
21.8	23.3				22	27				MLG1005S22NJTD25
23.8	25.5				22	26				MLG1005S24NHTD25
23.8	25.5				22	26				MLG1005S24NJTD25
27.0	29.6				20	23				MLG1005S27NHTD25
27.0	29.6				20	23				MLG1005S27NJTD25
30.1	33.5				19	21				MLG1005S30NHTD25
30.1	33.5				19	21				MLG1005S30NJTD25
33.5	37.8		20		23					MLG1005S33NHTD25
33.5	37.8		20		23					MLG1005S33NJTD25
36.7	41.5		21		23					MLG1005S36NHTD25
36.7	41.5		21		23					MLG1005S36NJTD25
40.3	46.9		20		21					MLG1005S39NHTD25
40.3	46.9		20		21					MLG1005S39NJTD25
44.3	51.6		20		21					MLG1005S43NHTD25
44.3	51.6		20		21					MLG1005S43NJTD25
50.2	63.2		19		20					MLG1005S47NHTD25
50.2	63.2		19		20					MLG1005S47NJTD25
53.7	65.6		19		19					MLG1005S51NHTD25
53.7	65.6		19		19					MLG1005S51NJTD25
60.9	80.2		19		18					MLG1005S56NHTD25
60.9	80.2		19		18					MLG1005S56NJTD25
67.5	89.8		18		16					MLG1005S62NHTD25
67.5	89.8		18		16					MLG1005S62NJTD25
75.8	107.5		17		15					MLG1005S68NHTD25
75.8	107.5		17		15					MLG1005S68NJTD25
86.5	135.2		17		13					MLG1005S75NHTD25
86.5	135.2		17		13					MLG1005S75NJTD25
96.9			16							MLG1005S82NHTD25
96.9			16							MLG1005S82NJTD25
111.0			15							MLG1005S91NHTD25
111.0			15							MLG1005S91NJTD25

* Please contact us for $\pm 2\%$ inductance tolerance (code G) products.

○ Measurement equipment

Product No.	Manufacturer
4291B +16193A	Agilent Technologies

* Equivalent measurement equipment may be used.

MLG_{series} **MLG1005S 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	
128.9					14					MLG1005SR10HTD25
128.9					14					MLG1005SR10JTD25
140.8					15					MLG1005SR11HTD25
140.8					15					MLG1005SR11JTD25
175.2					12					MLG1005SR12HTD25
175.2					12					MLG1005SR12JTD25
187.8					13					MLG1005SR13HTD25
187.8					13					MLG1005SR13JTD25
284.7					11					MLG1005SR15HTD25
284.7					11					MLG1005SR15JTD25
										MLG1005SR16HTD25
										MLG1005SR16JTD25
										MLG1005SR18HTD25
										MLG1005SR18JTD25
										MLG1005SR20HTD25
										MLG1005SR20JTD25
										MLG1005SR22HTD25
										MLG1005SR22JTD25
										MLG1005SR24HTD25
										MLG1005SR24JTD25
										MLG1005SR27HTD25
										MLG1005SR27JTD25
										MLG1005SR30HTD25
										MLG1005SR30JTD25
										MLG1005SR33HTD25
										MLG1005SR33JTD25
										MLG1005SR36HTD25
										MLG1005SR36JTD25
										MLG1005SR39HTD25
										MLG1005SR39JTD25

* Please contact us for $\pm 2\%$ inductance tolerance (code G) products.

○ Measurement equipment

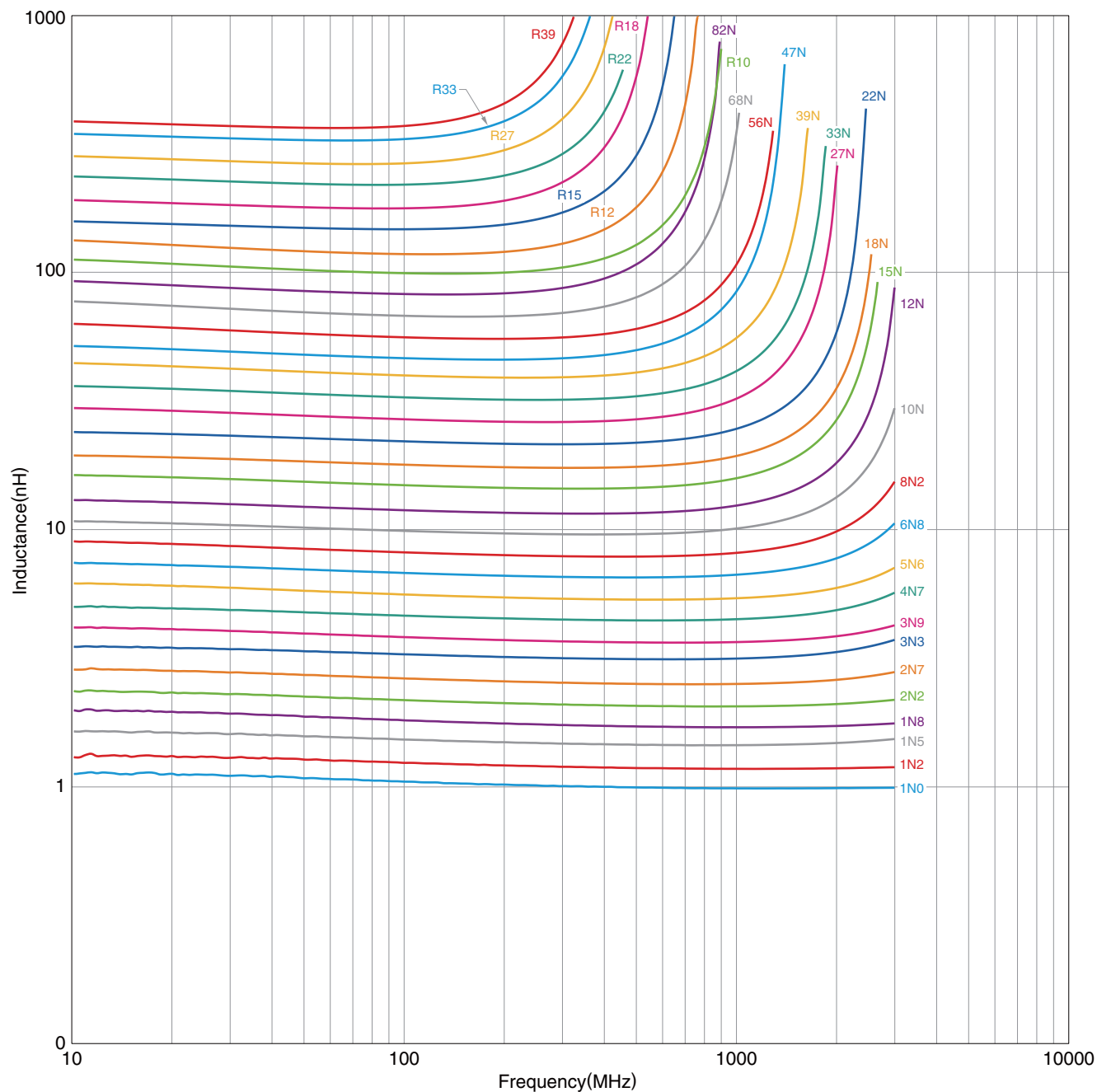
Product No.	Manufacturer
4291B +16193A	Agilent Technologies

* Equivalent measurement equipment may be used.

MLG_{series} **MLG1005S Type**

■ ELECTRICAL CHARACTERISTICS

□ L FREQUENCY CHARACTERISTICS GRAPH (EXAMPLE)



○ Measurement equipment

Product No.	Manufacturer
E4991A +16193A	Agilent Technologies

* Equivalent measurement equipment may be used.

MLG_{series} **MLG1005S Type**

■ ELECTRICAL CHARACTERISTICS

□ Q FREQUENCY CHARACTERISTICS GRAPH (EXAMPLE)



○ Measurement equipment

Product No.	Manufacturer
E4991A +16193A	Agilent Technologies

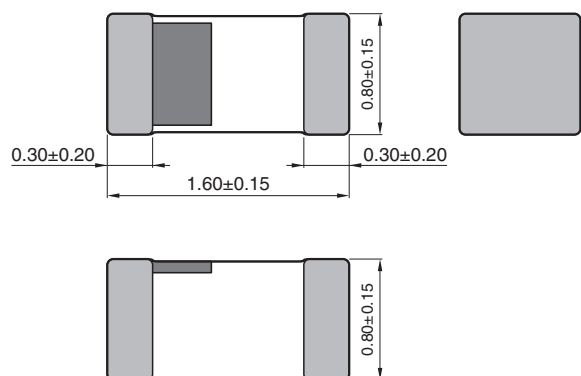
* Equivalent measurement equipment may be used.

MLG_{series}

MLG1608Type

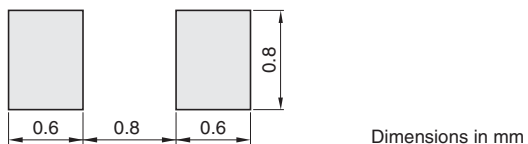


■ SHAPE & DIMENSIONS



Dimensions in mm

■ RECOMMENDED LAND PATTERN



Dimensions in mm

MLG_{series} **MLG1608 Type**

■ ELECTRICAL CHARACTERISTICS

□ CHARACTERISTICS SPECIFICATION TABLE

L (nH)	Tolerance	Q min.	L, Q measuring frequency (MHz)	Self-resonant frequency (GHz)		DC resistance (Ω)		Rated current (mA) max.	Part No.*
				min.	typ.	max.	typ.		
1	±0.3nH	8	100	10.0	20up	0.10	0.03	600	MLG1608B1N0STD25
1.2	±0.3nH	8	100	10.0	20up	0.10	0.04	600	MLG1608B1N2STD25
1.5	±0.3nH	8	100	10.0	19.6	0.10	0.03	600	MLG1608B1N5STD25
1.8	±0.3nH	8	100	10.0	16.6	0.10	0.04	600	MLG1608B1N8STD25
2.2	±0.3nH	10	100	8.0	10.8	0.10	0.05	600	MLG1608B2N2STD25
2.7	±0.3nH	10	100	7.0	8.8	0.12	0.06	600	MLG1608B2N7STD25
3.3	±0.3nH	10	100	6.5	8.8	0.12	0.06	600	MLG1608B3N3STD25
3.9	±0.3nH	10	100	6.0	7.9	0.14	0.06	600	MLG1608B3N9STD25
4.7	±0.3nH	10	100	5.0	6.8	0.15	0.08	600	MLG1608B4N7STD25
5.6	±0.5nH	10	100	5.0	6.8	0.16	0.08	600	MLG1608B5N6DTD25
6.8	±0.5nH	10	100	4.5	5.7	0.18	0.10	600	MLG1608B6N8DTD25
8.2	±0.5nH	10	100	4.5	5.6	0.20	0.10	600	MLG1608B8N2DTD25
10	±5%	12	100	3.5	4.5	0.20	0.11	600	MLG1608B10NJTD25
12	±5%	12	100	3.0	3.8	0.25	0.13	600	MLG1608B12NJTD25
15	±5%	12	100	2.8	3.6	0.28	0.14	600	MLG1608B15NJTD25
18	±5%	12	100	2.6	3.3	0.32	0.16	600	MLG1608B18NJTD25
22	±5%	12	100	2.3	3.0	0.35	0.19	500	MLG1608B22NJTD25
27	±5%	12	100	2.0	2.7	0.40	0.21	500	MLG1608B27NJTD25
33	±5%	12	100	1.8	2.3	0.50	0.25	500	MLG1608B33NJTD25
39	±5%	12	100	1.6	2.0	0.55	0.26	400	MLG1608B39NJTD25
47	±5%	14	100	1.4	1.8	0.60	0.35	400	MLG1608B47NJTD25
56	±5%	14	100	1.2	1.8	0.70	0.41	400	MLG1608B56NJTD25
68	±5%	14	100	1.1	1.6	0.75	0.43	300	MLG1608B68NJTD25
82	±5%	14	100	1.0	1.4	0.80	0.50	300	MLG1608B82NJTD25
100	±5%	14	100	0.80	1.2	1.00	0.64	300	MLG1608BR10JTD25
120	±5%	14	100	0.65	0.8	1.20	0.89	300	MLG1608SR12JTD25
150	±5%	14	100	0.55	0.7	1.30	1.03	250	MLG1608SR15JTD25
180	±5%	14	100	0.50	0.6	1.40	1.08	250	MLG1608SR18JTD25
220	±5%	14	100	0.45	0.6	1.70	1.29	200	MLG1608SR22JTD25
270	±5%	14	100	0.35	0.5	2.00	1.59	200	MLG1608SR27JTD25
330	±5%	10	50	0.35	0.5	2.80	1.90	100	MLG1608SR33JTD25
390	±5%	10	50	0.30	0.4	3.00	2.06	100	MLG1608SR39JTD25
470	±5%	10	50	0.25	0.4	3.50	2.47	100	MLG1608SR47JTD25
560	±5%	10	50	0.25	0.4	4.50	3.20	70	MLG1608SR56JTD25
680	±5%	10	50	0.20	0.3	5.50	3.88	70	MLG1608SR68JTD25
820	±5%	10	50	0.15	0.2	5.50	3.76	70	MLG1608SR82JTD25
1000	±5%	10	50	0.13	0.2	5.50	4.27	70	MLG1608S1R0JTD25

• Because it provides for a product of smaller inductance tolerance, please refer.

○ Measurement equipment

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

* Equivalent measurement equipment may be used.

MLG_{series} **MLG1608 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	
1.0	1.0	1.0	1.0	1.0	39	48	77	82	95	MLG1608B1N0STD25
1.2	1.1	1.2	1.2	1.2	28	35	57	60	68	MLG1608B1N2STD25
1.5	1.5	1.5	1.5	1.5	37	48	78	81	93	MLG1608B1N5STD25
1.8	1.8	1.8	1.8	1.8	38	48	77	81	95	MLG1608B1N8STD25
2.2	2.1	2.2	2.2	2.2	44	54	88	91	107	MLG1608B2N2STD25
2.6	2.6	2.7	2.7	2.8	40	51	79	81	94	MLG1608B2N7STD25
3.2	3.2	3.3	3.3	3.4	38	48	76	79	91	MLG1608B3N3STD25
3.8	3.8	4.0	4.0	4.1	40	50	79	81	93	MLG1608B3N9STD25
4.6	4.6	4.9	5.0	5.2	41	51	76	79	88	MLG1608B4N7STD25
5.4	5.5	5.8	5.9	6.2	37	46	69	71	79	MLG1608B5N6DSTD25
6.6	6.7	7.3	7.5	8.0	38	47	67	68	74	MLG1608B6N8DSTD25
8.0	8.1	8.9	9.3	10	39	48	67	68	71	MLG1608B8N2DSTD25
9.8	10.0	11.5	12.1	13.6	38	47	63	63	61	MLG1608B10NJTD25
11.8	12.1	14.8	16.0	19.3	39	48	59	57	51	MLG1608B12NJTD25
14.8	15.4	20.6	23.4		38	46	49	46		MLG1608B15NJTD25
17.8	18.5	25.5	29.3		36	44	47	42		MLG1608B18NJTD25
21.9	22.9	33.6	40.2		36	44	43	38		MLG1608B22NJTD25
27.1	28.8	50.6			37	43	34			MLG1608B27NJTD25
33.4	36.0				37	43				MLG1608B33NJTD25
40.2	45.0				36	40				MLG1608B39NJTD25
49.1	56.0				38	41				MLG1608B47NJTD25
59.6	71.1				37	38				MLG1608B56NJTD25
74.0	92.8				34	33				MLG1608B68NJTD25
91.1	120.6				33	31				MLG1608B82NJTD25
118					35					MLG1608BR10JTD25
188					23					MLG1608SR12JTD25
										MLG1608SR15JTD25
										MLG1608SR18JTD25
										MLG1608SR22JTD25
										MLG1608SR27JTD25
										MLG1608SR33JTD25
										MLG1608SR39JTD25
										MLG1608SR47JTD25
										MLG1608SR56JTD25
										MLG1608SR68JTD25
										MLG1608SR82JTD25
										MLG1608SR1R0JTD25

• Because it provides for a product of smaller inductance tolerance, please refer.

○ Measurement equipment

Product No.	Manufacturer
4291B +16193A	Agilent Technologies

* Equivalent measurement equipment may be used.

MLGseries **MLG1608 Type**

■ ELECTRICAL CHARACTERISTICS

□ CHARACTERISTICS SPECIFICATION TABLE

L (nH)	Tolerance	Q min.	L, Q measuring frequency (MHz)	Self-resonant frequency (GHz)		DC resistance (Ω)		Rated current (mA) max.	Part No.*
				min.	typ.	max.	typ.		
1	$\pm 0.3\text{nH}$	8	100	10.0	20up	0.10	0.03	600	MLG1608B1N0STD25
1.2	$\pm 0.3\text{nH}$	8	100	10.0	20up	0.10	0.04	600	MLG1608B1N2STD25
1.5	$\pm 0.3\text{nH}$	8	100	10.0	19.6	0.10	0.03	600	MLG1608B1N5STD25
1.8	$\pm 0.3\text{nH}$	8	100	10.0	16.6	0.10	0.04	600	MLG1608B1N8STD25
2.2	$\pm 0.3\text{nH}$	10	100	8.0	10.8	0.10	0.05	600	MLG1608B2N2STD25
2.7	$\pm 0.3\text{nH}$	10	100	7.0	8.8	0.12	0.06	600	MLG1608B2N7STD25
3.3	$\pm 0.3\text{nH}$	10	100	6.5	8.8	0.12	0.06	600	MLG1608B3N3STD25
3.9	$\pm 0.3\text{nH}$	10	100	6.0	7.9	0.14	0.06	600	MLG1608B3N9STD25
4.7	$\pm 0.3\text{nH}$	10	100	5.0	6.8	0.15	0.08	600	MLG1608B4N7STD25
5.6	$\pm 0.5\text{nH}$	10	100	5.0	6.8	0.16	0.08	600	MLG1608B5N6DTD25
6.8	$\pm 0.5\text{nH}$	10	100	4.5	5.7	0.18	0.10	600	MLG1608B6N8DTD25
8.2	$\pm 0.5\text{nH}$	10	100	4.5	5.6	0.20	0.10	600	MLG1608B8N2DTD25
10	$\pm 5\%$	12	100	3.5	4.5	0.20	0.11	600	MLG1608B10NJTD25
12	$\pm 5\%$	12	100	3.0	3.8	0.25	0.13	600	MLG1608B12NJTD25
15	$\pm 5\%$	12	100	2.8	3.6	0.28	0.14	600	MLG1608B15NJTD25
18	$\pm 5\%$	12	100	2.6	3.3	0.32	0.16	600	MLG1608B18NJTD25
22	$\pm 5\%$	12	100	2.3	3.0	0.35	0.19	500	MLG1608B22NJTD25
27	$\pm 5\%$	12	100	2.0	2.7	0.40	0.21	500	MLG1608B27NJTD25
33	$\pm 5\%$	12	100	1.8	2.3	0.50	0.25	500	MLG1608B33NJTD25
39	$\pm 5\%$	12	100	1.6	2.0	0.55	0.26	400	MLG1608B39NJTD25
47	$\pm 5\%$	14	100	1.4	1.8	0.60	0.35	400	MLG1608B47NJTD25
56	$\pm 5\%$	14	100	1.2	1.8	0.70	0.41	400	MLG1608B56NJTD25
68	$\pm 5\%$	14	100	1.1	1.6	0.75	0.43	300	MLG1608B68NJTD25
82	$\pm 5\%$	14	100	1.0	1.4	0.80	0.50	300	MLG1608B82NJTD25
100	$\pm 5\%$	14	100	0.80	1.2	1.00	0.64	300	MLG1608BR10JTD25
120	$\pm 5\%$	14	100	0.65	0.8	1.20	0.89	300	MLG1608SR12JTD25
150	$\pm 5\%$	14	100	0.55	0.7	1.30	1.03	250	MLG1608SR15JTD25
180	$\pm 5\%$	14	100	0.50	0.6	1.40	1.08	250	MLG1608SR18JTD25
220	$\pm 5\%$	14	100	0.45	0.6	1.70	1.29	200	MLG1608SR22JTD25
270	$\pm 5\%$	14	100	0.35	0.5	2.00	1.59	200	MLG1608SR27JTD25
330	$\pm 5\%$	10	50	0.35	0.47	2.80	1.90	100	MLG1608SR33JTD25
390	$\pm 5\%$	10	50	0.30	0.43	3.00	2.06	100	MLG1608SR39JTD25
470	$\pm 5\%$	10	50	0.25	0.39	3.50	2.47	100	MLG1608SR47JTD25
560	$\pm 5\%$	10	50	0.25	0.36	4.50	3.20	70	MLG1608SR56JTD25
680	$\pm 5\%$	10	50	0.20	0.31	5.50	3.88	70	MLG1608SR68JTD25
820	$\pm 5\%$	10	50	0.15	0.22	5.50	3.76	70	MLG1608SR82JTD25
1000	$\pm 5\%$	10	50	0.13	0.19	5.50	4.27	70	MLG1608S1R0JTD25

• Because it provides for a product of smaller inductance tolerance, please refer.

○ Measurement equipment

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

* Equivalent measurement equipment may be used.

MLG_{series} **MLG1608 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	
1.0	1.0	1.0	1.0	1.0	39	48	77	82	95	MLG1608B1N0STD25
1.2	1.1	1.2	1.2	1.2	28	35	57	60	68	MLG1608B1N2STD25
1.5	1.5	1.5	1.5	1.5	37	48	78	81	93	MLG1608B1N5STD25
1.8	1.8	1.8	1.8	1.8	38	48	77	81	95	MLG1608B1N8STD25
2.2	2.1	2.2	2.2	2.2	44	54	88	91	107	MLG1608B2N2STD25
2.6	2.6	2.7	2.7	2.8	40	51	79	81	94	MLG1608B2N7STD25
3.2	3.2	3.3	3.3	3.4	38	48	76	79	91	MLG1608B3N3STD25
3.8	3.8	4.0	4.0	4.1	40	50	79	81	93	MLG1608B3N9STD25
4.6	4.6	4.9	5.0	5.2	41	51	76	79	88	MLG1608B4N7STD25
5.4	5.5	5.8	5.9	6.2	37	46	69	71	79	MLG1608B5N6STD25
6.6	6.7	7.3	7.5	8.0	38	47	67	68	74	MLG1608B6N8STD25
8.0	8.1	8.9	9.3	10	39	48	67	68	71	MLG1608B8N2STD25
9.8	10.0	11.5	12.1	13.6	38	47	63	63	61	MLG1608B10NSTD25
11.8	12.1	14.8	16.0	19.3	39	48	59	57	51	MLG1608B12NSTD25
14.8	15.4	20.6	23.4		38	46	49	46		MLG1608B15NSTD25
17.8	18.5	25.5	29.3		36	44	47	42		MLG1608B18NSTD25
21.9	22.9	33.6	40.2		36	44	43	38		MLG1608B22NSTD25
27.1	28.8	50.6			37	43	34			MLG1608B27NSTD25
33.4	36.0				37	43				MLG1608B33NSTD25
40.2	45.0				36	40				MLG1608B39NSTD25
49.1	56.0				38	41				MLG1608B47NSTD25
59.6	71.1				37	38				MLG1608B56NSTD25
74.0	92.8				34	33				MLG1608B68NSTD25
91.1	120.6				33	31				MLG1608B82NSTD25
118					35					MLG1608B10JTD25
188					23					MLG1608SR12JTD25
										MLG1608SR15JTD25
										MLG1608SR18JTD25
										MLG1608SR22JTD25
										MLG1608SR27JTD25
										MLG1608SR33JTD25
										MLG1608SR39JTD25
										MLG1608SR47JTD25
										MLG1608SR56JTD25
										MLG1608SR68JTD25
										MLG1608SR82JTD25
										MLG1608SR10JTD25

• Because it provides for a product of smaller inductance tolerance, please refer.

○ Measurement equipment

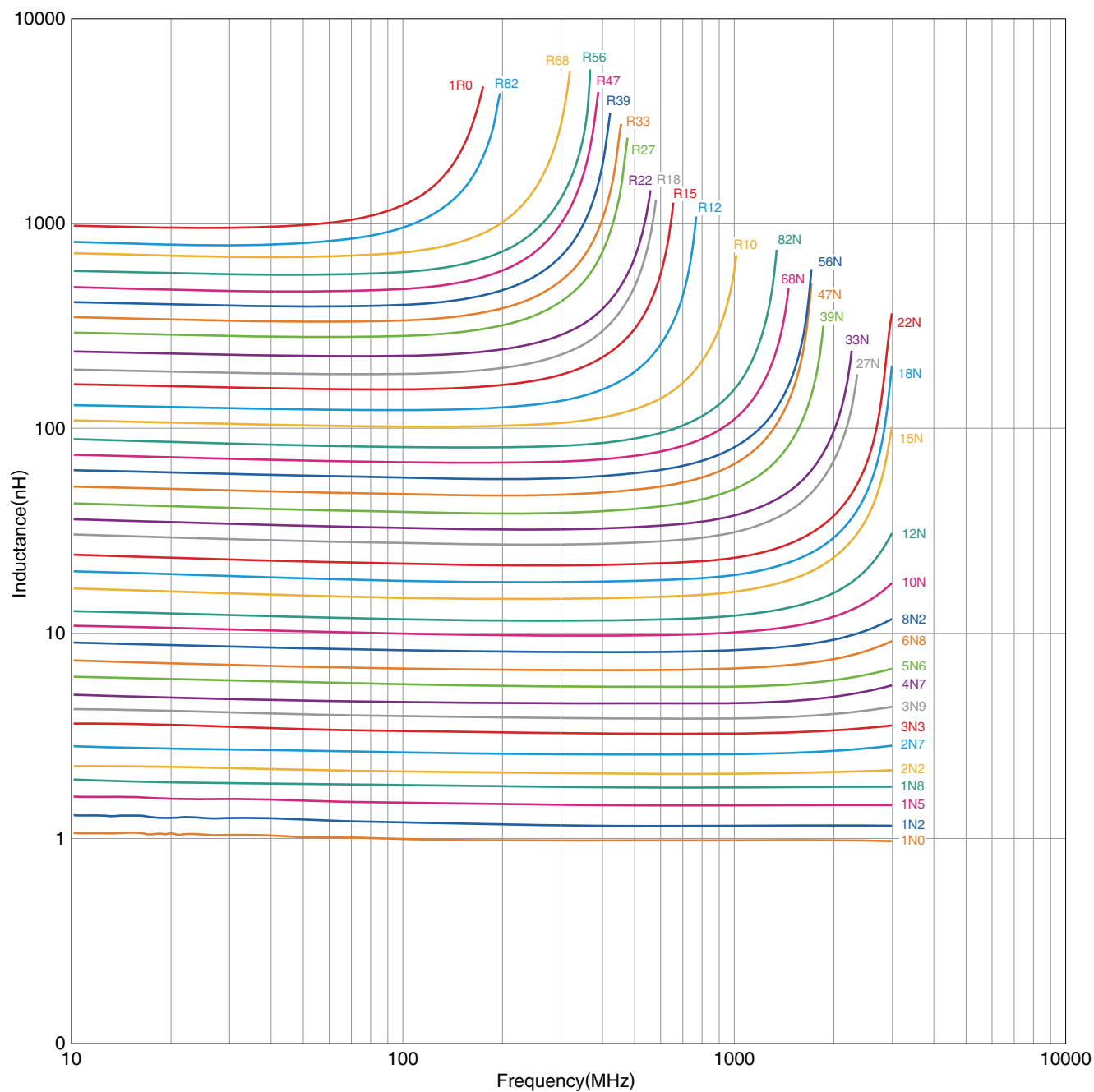
Product No.	Manufacturer
4291B +16193A	Agilent Technologies

* Equivalent measurement equipment may be used.

MLG_{series} **MLG1608Type**

■ ELECTRICAL CHARACTERISTICS

□ L FREQUENCY CHARACTERISTICS GRAPH (EXAMPLE)



○ Measurement equipment

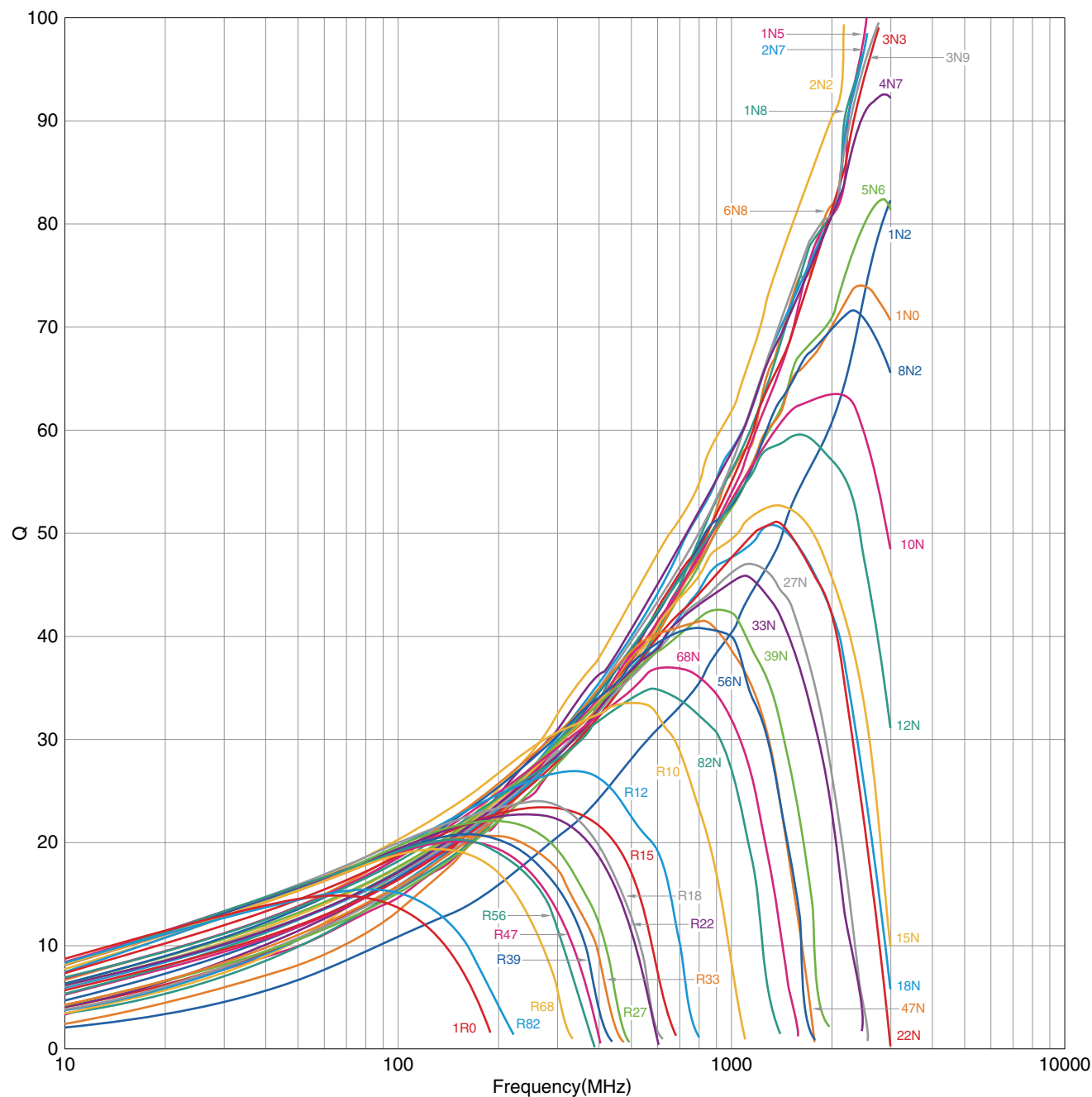
Product No.	Manufacturer
E4991A +16193A	Agilent Technologies

* Equivalent measurement equipment may be used.

MLG_{series} **MLG1608Type**

■ ELECTRICAL CHARACTERISTICS

□ Q FREQUENCY CHARACTERISTICS GRAPH (EXAMPLE)



○ Measurement equipment

Product No.	Manufacturer
E4991A +16193A	Agilent Technologies

* Equivalent measurement equipment may be used.

■ REEL DIMENSIONS



Technical drawing of a mechanical part with dimensions and labels:

- Sprocket hole**: Label pointing to the first hole on the left.
- 1.5^{+0.1}_{0.0}**: Dimension for the distance between the first and second sprocket holes.
- Cavity**: Label pointing to the central section of the part.
- 1.75^{+0.1}**: Dimension for the distance from the right edge to the center of the last sprocket hole.
- 3.5^{+0.05}**: Dimension for the distance from the right edge to the center of the second-to-last sprocket hole.
- 8.0^{+0.3}**: Total length of the part.
- A**: Label for the thickness of the part.
- 4.0^{+0.1}**: Dimension for the distance between the center of the second-to-last sprocket hole and the center of the last sprocket hole.
- 2.0^{+0.05}**: Dimension for the distance between the center of the second sprocket hole and the center of the third sprocket hole.
- 2.0^{+0.05}**: Dimension for the distance between the center of the third sprocket hole and the center of the fourth sprocket hole.
- B**: Label for the distance from the left edge to the center of the first sprocket hole.
- K**: Label for the thickness of the part at the left end.



Type	A	B	K
MLG0603S	0.68±0.05	0.38±0.05	0.5 max.
MLG1005S	1.12±0.1	0.62±0.1	0.8 max.
MLG1608	1.9±0.2	1.1±0.2	1.1 max.

- 001-01 / 20140402 / inductor_automotive_high-frequency_mlg_en