Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	IDC (mA) Max
GMLI-201212-2R7☐-CL	2.7	20 / 15 / 10	45	10	45	0.75	30
GMLI-201212-3R3☐-CL	3.3	20 / 15 / 10	45	10	41	0.80	30
GMLI-201212-3R9☐-CL	3.9	20 / 15 / 10	45	10	38	0.90	30
GMLI-201212-4R7☐-CL	4.7	20 / 15 / 10	45	10	35	1.00	30
GMLI-201212-5R6☐-CL	5.6	20 / 15 / 10	45	4	32	0.90	15
GMLI-201212-6R8☐-CL	6.8	20 / 15 / 10	45	4	29	1.00	15
GMLI-201212-8R2☐-CL	8.2	20 / 15 / 10	45	4	26	1.10	15
GMLI-201212-100☐-CL	10	20 / 15 / 10	45	2	24	1.10	15
GMLI-201212-120☐-CL	12	20 / 15 / 10	45	2	22	1.20	15
GMLI-201212-150☐-CL	15	20 / 15 / 10	30	1	19	0.80	5
GMLI-201212-180☐-CL	18	20 / 15 / 10	30	1	18	0.90	5
GMLI-201212-220☐-CL	22	20 / 15 / 10	30	1	16	1.1	5

Note: When ordering, please specify tolerance code. Tolerance : K=±10% , L=±15% , M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- IDC：Applied the current to coils, the inductance shall be less than 10% initial value
- Measure Equipment：
  L & Q：HP4291A
  SRF：Agilent HP8753D/Agilent E4991A
  RDC：HP4338B or CHEN HWA 502

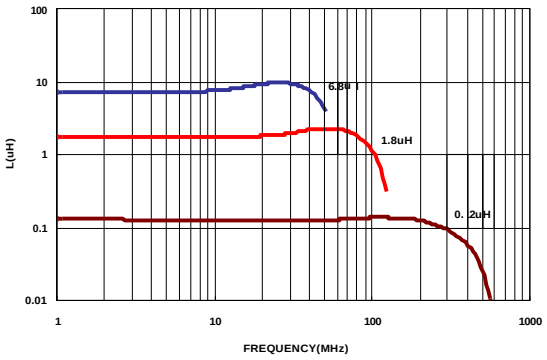
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Mag.Layers approval. Please contact our sales department before ordering.

MAG.LAYERS
Scientific Technics Co.,Ltd

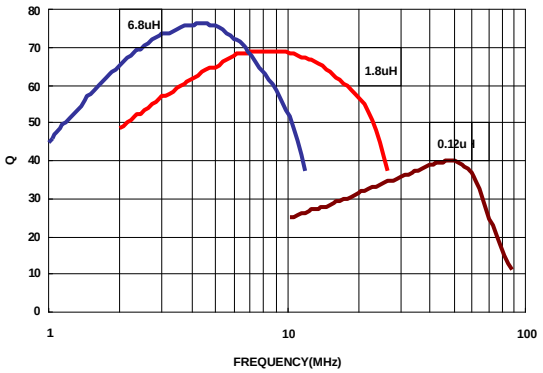
Test Instruments：Agilent E4991A Impedance / Material Analyzer

GMLI-160808

INDUCTANCE v s. FREQUENCY CHARACTERISTICS

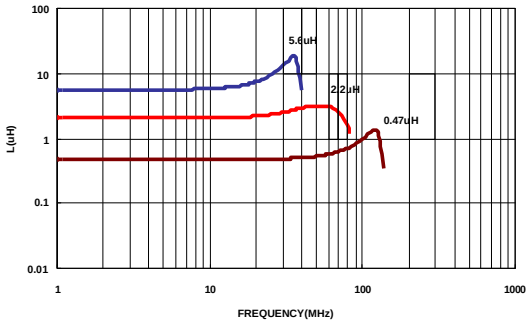


Q vs. FREQUENCY CHARACTERISTICS

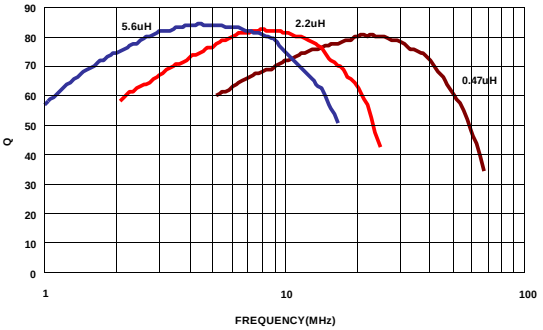


GMLI-201209/201212

INDUCTANCE v s. FREQUENCY CHARACTERISTICS

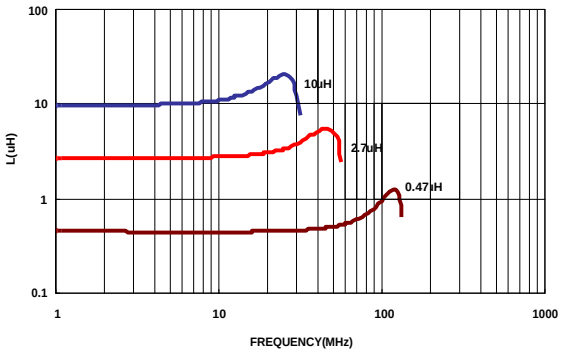


Q v s. FREQUENCY CHARACTERISTICS

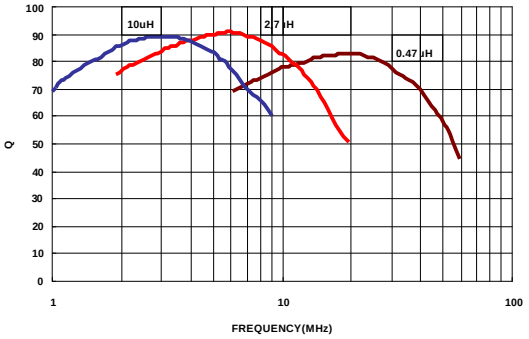


GMLI-321611

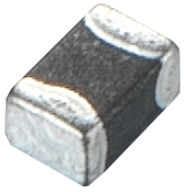
INDUCTANCE v s. FREQUENCY CHARACTERISTICS



Q v s. FREQUENCY CHARACTERISTICS



GMLI Series



The SMD multi-layered ferrite chip inductors provide a cost-effective solution for densely packed PC board designs. GMLI series comes in 4 sizes and is suitable for low frequency applications.

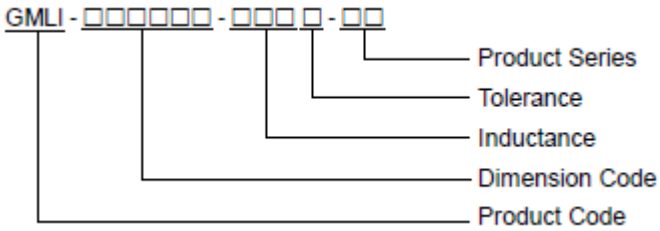
Features

- RoHS compliant
- High mounting density of compact circuit due to crosstalk elimination that results from a closed magnetic flux in a ferrite material
- Suitable for flow and re-flow soldering
- Available in 4 sizes

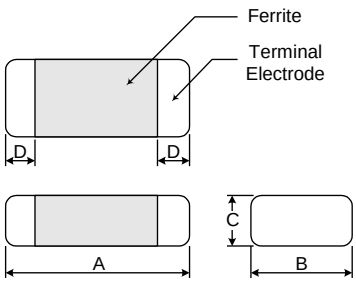
Applications

- Personal computers, HDDs, other various electronic devices
- Any portable device where compact size and high mounting densities are required

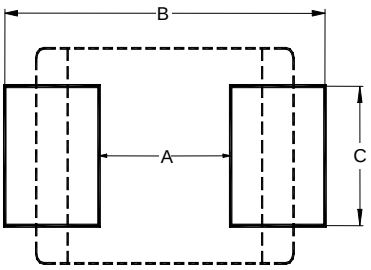
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

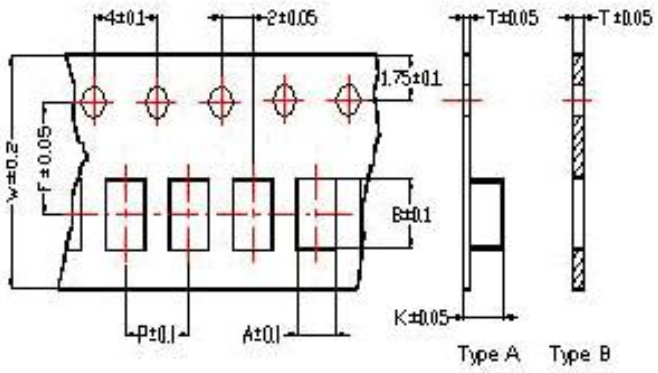
TYPE	A	B	C	D
160808	1.6±0.20	0.80±0.20	0.80±0.20	0.3±0.20
201209	2.0±0.20	1.25±0.20	0.90±0.20	0.5±0.30
201212	2.0±0.20	1.25±0.20	1.25±0.20	0.5±0.30
321611	3.2±0.20	1.60±0.20	1.10±0.20	0.5±0.30

Dimensions in mm

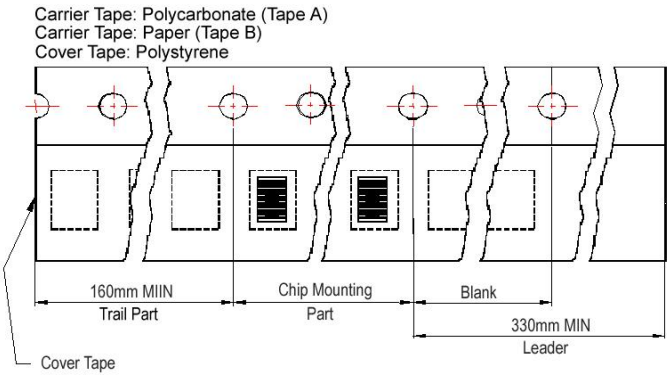
TYPE	A	B	C
160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
321611	2.0	4.2 ~ 5.2	1.2

Packaging Specifications

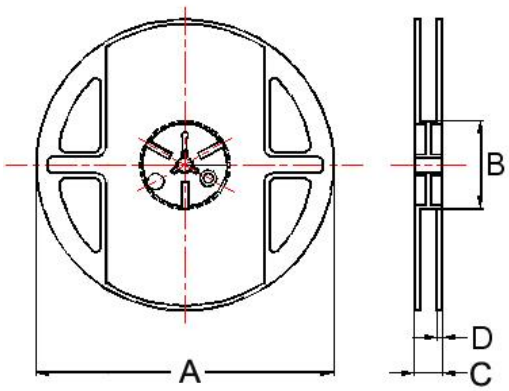
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / Reel
160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	1.5	4000
201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	1.5	4000
201212	1.35	2.25	0.22	8.0	4.0	3.5	1.35	A	178	60	12	1.5	3000
321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	1.5	3000