

SMD Multilayer Ferrite Chip Inductors – GMLI-201209 Series

Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance (\pm %)	Q Min	Test Frequency (MHz)	SRF MHz) Min	RDC (Ω) Max	IDC (mA) Max
GMLI-201209-22N□-CL	0.022	20	20	50	320	0.20	300
GMLI-201209-33N□-CL	0.033	20 / 15	20	50	320	0.20	300
GMLI-201209-47N□-CL	0.047	20 / 15	20	50	320	0.20	300
GMLI-201209-56N□-CL	0.056	20 / 15	20	50	320	0.20	300
GMLI-201209-68N□-CL	0.068	20 / 15	20	50	280	0.20	300
GMLI-201209-82N□-CL	0.082	20 / 15	20	50	255	0.20	300
GMLI-201209-R10□-CL	0.10	20 / 15 / 0	25	25	235	0.30	250
GMLI-201209-R12□-CL	0.12	20 / 15 / 10	25	25	220	0.30	250
GMLI-201209-R15□-CL	0.15	20 / 15 / 10	25	25	200	0.40	250
GMLI-201209-R18□-CL	0.18	20 / 15 / 10	25	25	185	0.40	250
GMLI-201209-R22□-CL	0.22	20 / 15 / 10	25	25	170	0.50	250
GMLI-201209-R27□-CL	0.27	20 / 15 / 10	25	25	150	0.50	250
GMLI-201209-R33□-CL	0.33	20 / 15 / 10	25	25	145	0.55	250
GMLI-201209-R39□-CL	0.39	20 / 15 / 10	25	25	135	0.65	250
GMLI-201209-R47□-CL	0.47	20 / 15 / 10	25	25	125	0.65	250
GMLI-201209-R56□-CL	0.56	20 / 15 / 10	25	25	115	0.75	150
GMLI-201209-R68□-CL	0.68	20 / 15 / 10	25	25	105	0.80	150
GMLI-201209-R82□-CL	0.82	20 / 15 / 10	25	25	100	1.00	150
GMLI-201209-1R0□-CL	1.0	20 / 15 / 10	45	10	75	0.40	50
GMLI-201209-1R2□-CL	1.2	20 / 15 / 10	45	10	65	0.50	50
GMLI-201209-1R5□-CL	1.5	20 / 15 / 10	45	10	60	0.50	50
GMLI-201209-1R8□-CL	1.8	20 / 15 / 10	45	10	55	0.60	50
GMLI-201209-2R2□-CL	2.2	20 / 15 / 10	45	10	50	0.65	30

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

- Operating temperature range - 40°C ~ 125°C(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

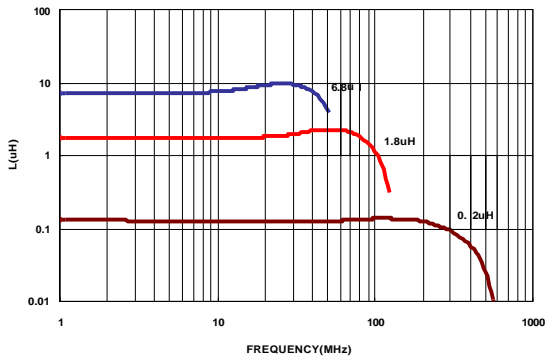


SMD Multilayer Ferrite Chip Inductors – GMLI Series

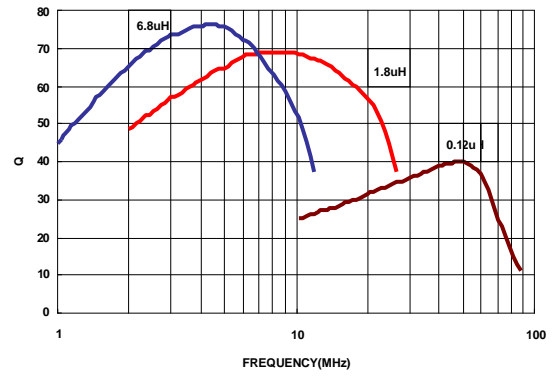
Test Instruments : Agilent E4991A Impedance / Material Analyzer

GMLI-160808

INDUCTANCE v s. FREQUENCY CHARACTERISTICS

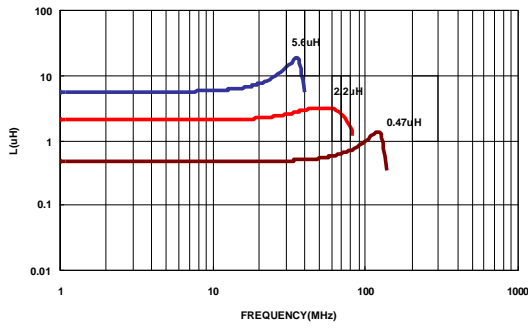


Q vs. FREQUENCY CHARACTERISTICS

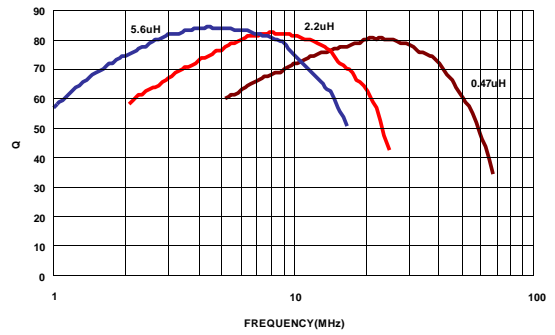


GMLI-201209/201212

INDUCTANCE v s. FREQUENCY CHARACTERISTICS

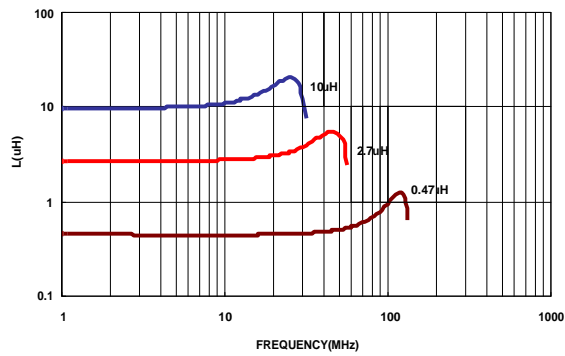


Q vs. FREQUENCY CHARACTERISTICS

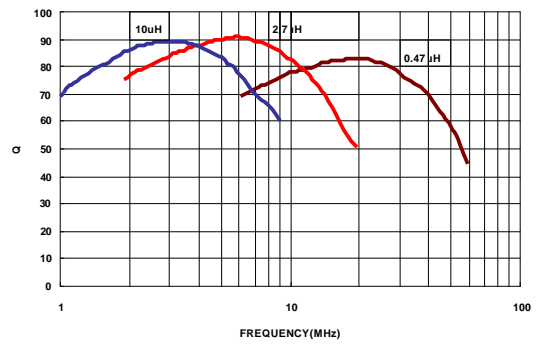


GMLI-321611

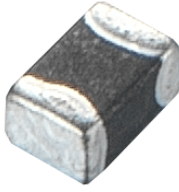
INDUCTANCE v s. FREQUENCY CHARACTERISTICS



Q vs. 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.

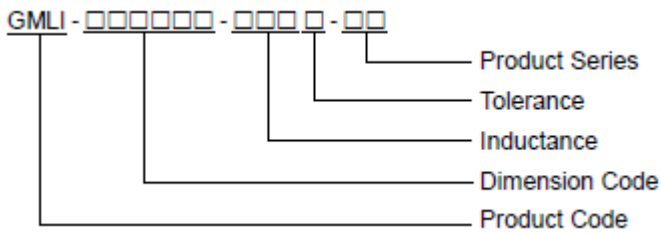
Features

- 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

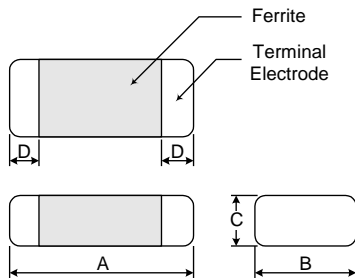
Applications

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

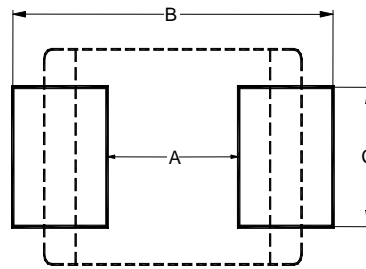
Product Identification



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

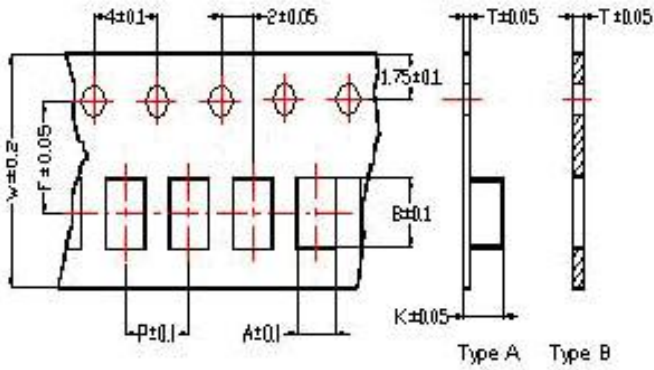
Dimensions in mm

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

SMD Multilayer Ferrite Chip Inductors - GMLI Series

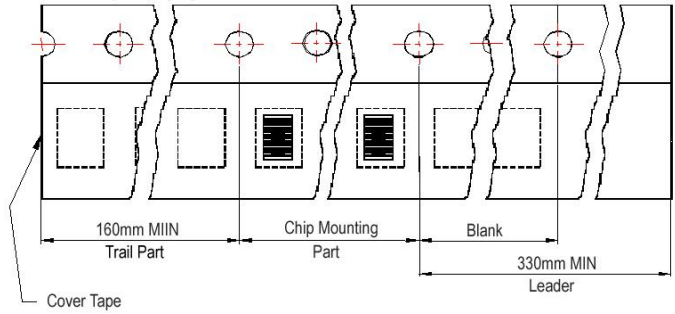
Packaging Specifications

Tape Dimensions

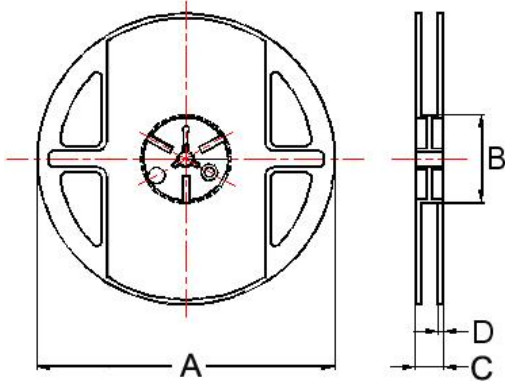


Tape Material

Carrier Tape: Polycarbonate (Tape A)
 Carrier Tape: Paper (Tape B)
 Cover Tape: Polystyrene



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity PCS / Reel
	A	B	T	W	P	F	K	Tape	A	B	C	D	
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