

Wire-wound Ferrite Bead Inductors for Power Lines LAMG series for Automotive Powertrain and Safety

Code in front of Series have been extracted from Part number, which describes the segment of products, such as kinds and characteristics.

AEC-Q200 Grade 1 (we conduct the evaluation at the test condition of Grade 1.)

*Operating environment Temp:-40~125°C

REFLOW

AEC-Q200

PART NUMBER

*Operating Temp. : -40~150°C (Including self-generated heat)

L	A	M	G	L	1	6	0	8	0	8	T	4	7	0	R	D
①	②	③	④	⑤	⑥	⑦	⑧									

①Series

Code (1)(2)(3)(4)	
LAMG	Wire-wound Ferrite Bead Inductors for Power Lines, for Automotive Powertrain and Safety

(1) Product Group

Code	
L	Inductors

(2) Category

Code	Recommended equipment	Quality Grade
A	Automotive Electronic Equipment (Powertrain, Safety)	1

(3) Type

Code	
M	Ferrite Wire-wound bead

(4) Features, Characteristics

Code	
G	High frequency

②Features

Code	Feature
L	150°C (Wide frequency band)
M	150°C (High frequency)

③Dimensions (L × W)

Code	Type (inch)	Dimensions (L × W) [mm]
1608	1608 (0603)	1.6 × 0.8

④Dimensions (T)

Code	Dimensions (T) [mm]
08	0.8

⑤Packaging

Code	Packaging
T	Taping

⑦Nominal inductance

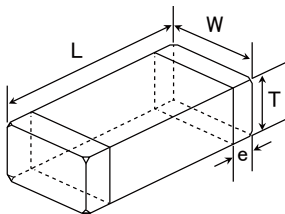
Code (example)	Nominal inductance [μH]
330	33
221	220
102	1000

⑦Impedance tolerance

Code	Impedance tolerance
R	±25%

⑧Internal code

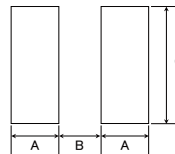
STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY



Recommended Land Patterns

Surface Mounting

• Mounting and soldering conditions should be checked beforehand.



Type	A	B	C
1608	1.0	1.0	1.0

Unit: mm

Type	L	W	T	e	Standard quantity [pcs]	
					Paper tape	Embossed tape
160808 (0603)	1.6±0.15 (0.063±0.006)	0.8±0.15 (0.031±0.006)	0.8±0.15 (0.031±0.006)	0.4±0.2 (0.015±0.008)	4000	—

Unit: mm (inch)

PART NUMBER

- All the Wire-wound Ferrite Bead Inductors for Power Lines of the catalog lineup are RoHS compliant.

Notes)

- The exchange of individual specifications is necessary depending on your application and/or circuit condition. Please contact TAIYO YUDEN's official sales channel.
- For Automotive (AEC-Q200 Qualified) products for POWERTRAIN, and SAFETY. Please check "Automotive Application Guide" for further details before using the products.

< **AEC-Q200** :AEC-Q200 qualified>

All the Wire-wound Ferrite Bead Inductors for Power Lines for Automotive products are tested based on the test conditions and methods defined in AEC-Q200 by family item.
Please consult with TAIYO YUDEN's official sales channel for the details of the product specifications and AEC-Q200 test results, etc.,
and please review and approve the product specifications before ordering.

LAMGL1608

New part number	Old part number (for reference)	Nominal impedance (Ω)	Impedance tolerance	Measuring frequency [MHz]	DC Resistance [Ω] (max.)	Rated current [A] (max.)	Thickness [mm]
LAMGL160808T470RD	FB TH1608HE470-T	47	$\pm 25\%$	100	0.020	2.5	0.8 ± 0.15
LAMGL160808T600RD	FB TH1608HE600-T	60	$\pm 25\%$	100	0.025	2.3	0.8 ± 0.15
LAMGL160808T101RD	FB TH1608HE101-T	100	$\pm 25\%$	100	0.035	1.9	0.8 ± 0.15
LAMGL160808T151RD	FB TH1608HE151-T	150	$\pm 25\%$	100	0.050	1.5	0.8 ± 0.15
LAMGL160808T221RD	FB TH1608HE221-T	220	$\pm 25\%$	100	0.070	1.3	0.8 ± 0.15
LAMGL160808T331RD	FB TH1608HE331-T	330	$\pm 25\%$	100	0.130	0.9	0.8 ± 0.15
LAMGL160808T471RD	FB TH1608HE471-T	470	$\pm 25\%$	100	0.150	0.7	0.8 ± 0.15
LAMGL160808T601RD	FB TH1608HE601-T	600	$\pm 25\%$	100	0.170	0.6	0.8 ± 0.15
LAMGL160808T102RD	FB TH1608HE102-T	1000	$\pm 25\%$	100	0.350	0.5	0.8 ± 0.15

LAMGM1608

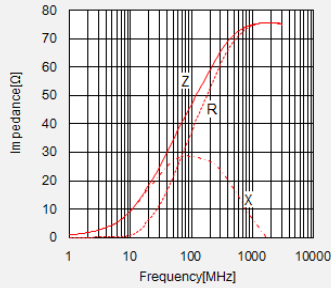
New part number	Old part number (for reference)	Nominal impedance (Ω)	Impedance tolerance	Measuring frequency [MHz]	DC Resistance [Ω] (max.)	Rated current [A] (max.)	Thickness [mm]
LAMGM160808T300RD	FB TH1608HL300-T	30	$\pm 25\%$	100	0.028	2.00	0.8 ± 0.15
LAMGM160808T600RD	FB TH1608HL600-T	60	$\pm 25\%$	100	0.045	1.60	0.8 ± 0.15
LAMGM160808T121RD	FB TH1608HL121-T	120	$\pm 25\%$	100	0.130	0.95	0.8 ± 0.15
LAMGM160808T221RD	FB TH1608HL221-T	220	$\pm 25\%$	100	0.170	0.65	0.8 ± 0.15
LAMGM160808T331RD	FB TH1608HL331-T	330	$\pm 25\%$	100	0.210	0.60	0.8 ± 0.15
LAMGM160808T471RD	FB TH1608HL471-T	470	$\pm 25\%$	100	0.350	0.50	0.8 ± 0.15
LAMGM160808T601RD	FB TH1608HL601-T	600	$\pm 25\%$	100	0.450	0.42	0.8 ± 0.15

※) The rated current is the value of current at which the temperature of the element is increased by 25 deg.

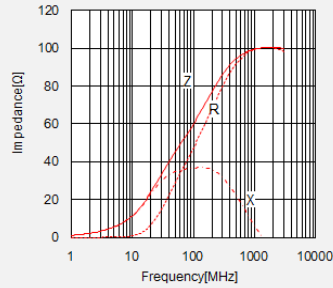
ELECTRICAL CHARACTERISTICS

LAMGL1608

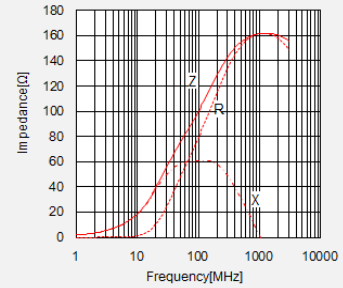
LAMGL160808T470RD



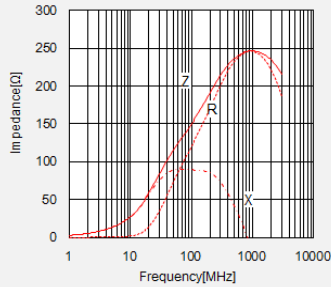
LAMGL160808T600RD



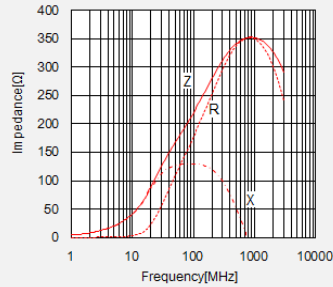
LAMGL160808T101RD



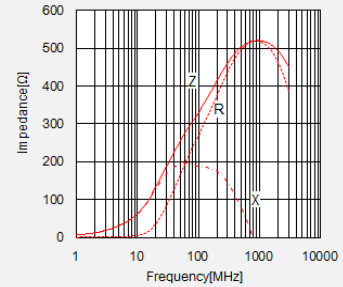
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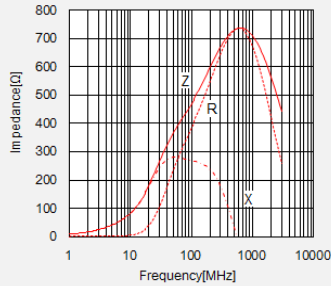
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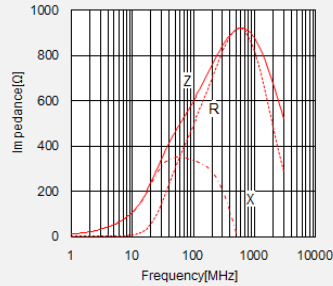
LAMGL160808T331RD



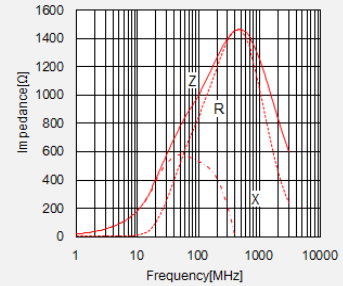
LAMGL160808T471RD



LAMGL160808T601RD

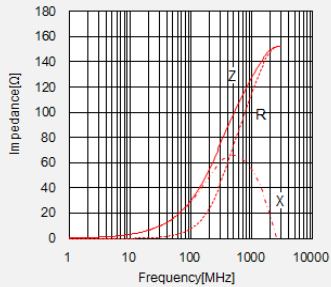


LAMGL160808T102RD

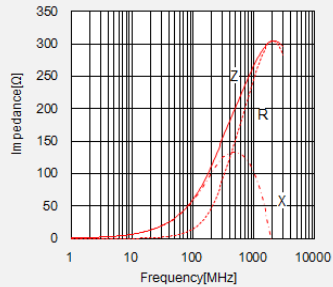


LAMGM1608

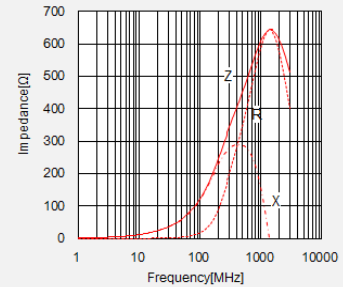
LAMGM160808T300RD



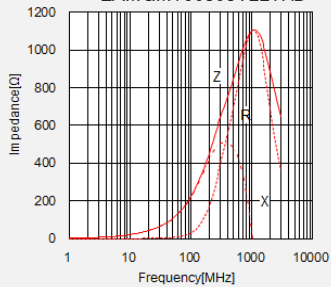
LAMGM160808T600RD



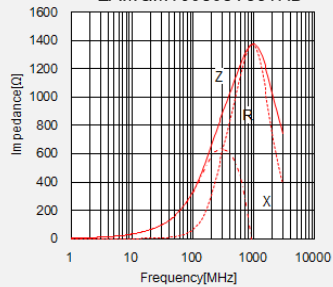
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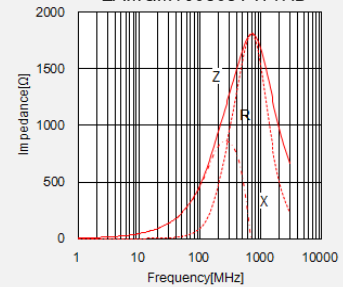
LAMGM160808T221RD



LAMGM160808T331RD

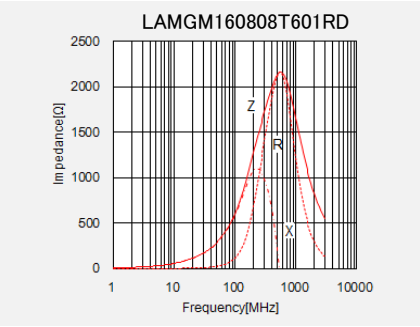


LAMGM160808T471RD



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For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our Web site (<http://www.ty-top.com/>).

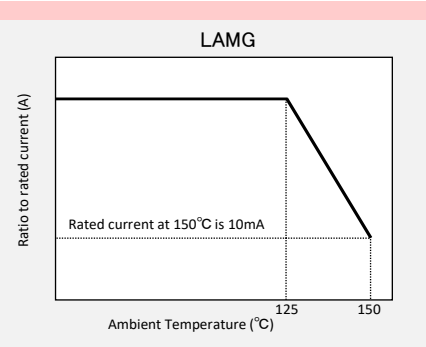
ELECTRICAL CHARACTERISTICS



Derating of Rated Current

LAMG series

Derating of current is necessary for LAMG series T type depending on ambient temperature.
Please refer to the chart shown below for appropriate derating of current.



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