

Wire-wound Ferrite Inductors for Signal Lines LBQM series

for Telecommunications Infrastructure and Industrial Equipment

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

REFLOW

PART NUMBER

*Operating Temp. : -40~105°C(Including self-generated heat)

L	B	Q	M	B	2	0	1	6	1	6	T	1	0	0	J	
①	②	③	④	⑤	⑥	⑦	⑧									

①Series

Code (1)(2)(3)(4)	
LBQM	Wire-wound Ferrite Inductor for Telecommunications Infrastructure and Industrial Equipment

(1) Product Group

Code	
L	Inductors

(3) Type

Code	
Q	Ferrite Wire-wound (Horizontal type)

(2) Category

Code	Recommended equipment	Quality Grade
B	Telecommunications Infrastructure and Industrial Equipment	2

(4) Features, Characteristics

Code	
M	Signal line

②Features

Code	Feature
B	L-shape electrode (Ag-resin × Sn-plate)

⑤Packaging

Code	Packaging
T	Taping

③Dimensions (L × W)

Code	Type (inch)	Dimensions (L × W) [mm]
2016	2016(0806)	2.0 × 1.6

⑥Nominal inductance

Code (example)	Nominal inductance [μH]
R12	0.12
1R0	1.0
100	10
101	100

※R=Decimal point

④Dimensions (T)

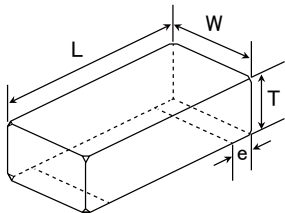
Code	Dimensions (T) [mm]
16	1.6

⑦Inductance tolerance

Code	Inductance tolerance
J	±5%

⑧Internal code

STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY



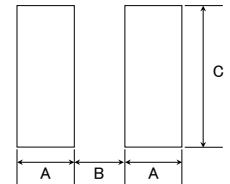
Recommended Land Patterns

Surface Mounting

- Mounting and soldering conditions should be checked beforehand.
- Applicable soldering process to these products is reflow soldering only.

Type	A	B	C
2016	0.6	1.0	1.8

Unit: mm



Type	L	W	T	e	Standard quantity [pcs]	
					Paper tape	Embossed tape
201616	2.0±0.2 (0.08±0.008)	1.6±0.2 (0.063±0.008)	1.6±0.2 (0.063±0.008)	0.5±0.2 (0.02±0.008)	—	2000

Unit: mm (inch)

■ PART NUMBER

• All the Wire-wound Ferrite Inductors for Signal 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.
- The products are for Telecommunications infrastructure and Industrial equipment.
Please consult with TAIYO YUDEN's official sales channel for the details of the product specifications, etc.,
and please review and approve the product specifications before ordering.

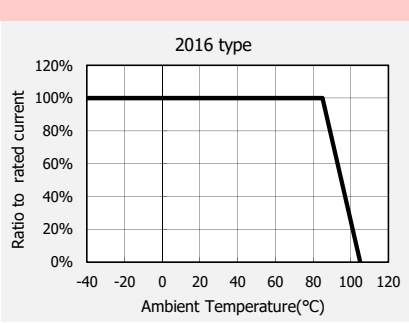
● 2016(0806) type

New part number	Old part number (for reference)	Nominal inductance [μ H]	Inductance tolerance	Q (min.)	Self-resonant frequency [MHz] (min.)	DC Resistance [Ω] ($\pm 30\%$)	Rated current [mA] (max.)	Measuring frequency [MHz]
LBQMB201616TR12J	LBM 2016TR12J 8	0.12	$\pm 5\%$	30	600	0.13	610	25.2
LBQMB201616TR15J	LBM 2016TR15J 8	0.15	$\pm 5\%$	30	550	0.15	570	25.2
LBQMB201616TR18J	LBM 2016TR18J 8	0.18	$\pm 5\%$	30	500	0.15	560	25.2
LBQMB201616TR22J	LBM 2016TR22J 8	0.22	$\pm 5\%$	30	450	0.20	520	25.2
LBQMB201616TR27J	LBM 2016TR27J 8	0.27	$\pm 5\%$	30	425	0.21	510	25.2
LBQMB201616TR33J	LBM 2016TR33J 8	0.33	$\pm 5\%$	30	400	0.21	490	25.2
LBQMB201616TR39J	LBM 2016TR39J 8	0.39	$\pm 5\%$	30	375	0.26	440	25.2
LBQMB201616TR47J	LBM 2016TR47J 8	0.47	$\pm 5\%$	30	350	0.26	430	25.2
LBQMB201616TR56J	LBM 2016TR56J 8	0.56	$\pm 5\%$	30	300	0.29	410	25.2
LBQMB201616TR68J	LBM 2016TR68J 8	0.68	$\pm 5\%$	30	270	0.32	400	25.2
LBQMB201616TR82J	LBM 2016TR82J 8	0.82	$\pm 5\%$	30	250	0.34	390	25.2
LBQMB201616TR1R0J	LBM 2016TR1R0J 8	1.0	$\pm 5\%$	30	220	0.38	385	7.96
LBQMB201616TR1R2J	LBM 2016TR1R2J 8	1.2	$\pm 5\%$	30	180	0.41	370	7.96
LBQMB201616TR1R5J	LBM 2016TR1R5J 8	1.5	$\pm 5\%$	30	135	0.47	350	7.96
LBQMB201616TR1R8J	LBM 2016TR1R8J 8	1.8	$\pm 5\%$	30	100	0.48	345	7.96
LBQMB201616TR2R2J	LBM 2016TR2R2J 8	2.2	$\pm 5\%$	30	75	0.54	340	7.96
LBQMB201616TR2R7J	LBM 2016TR2R7J 8	2.7	$\pm 5\%$	30	55	0.59	310	7.96
LBQMB201616TR3R3J	LBM 2016TR3R3J 8	3.3	$\pm 5\%$	30	48	0.68	290	7.96
LBQMB201616TR3R9J	LBM 2016TR3R9J 8	3.9	$\pm 5\%$	30	43	0.74	275	7.96
LBQMB201616TR4R7J	LBM 2016TR4R7J 8	4.7	$\pm 5\%$	30	40	0.78	270	7.96
LBQMB201616TR5R6J	LBM 2016TR5R6J 8	5.6	$\pm 5\%$	25	36	0.88	255	7.96
LBQMB201616TR6R8J	LBM 2016TR6R8J 8	6.8	$\pm 5\%$	25	33	0.97	240	7.96
LBQMB201616TR8R2J	LBM 2016TR8R2J 8	8.2	$\pm 5\%$	25	30	1.1	225	7.96
LBQMB201616T100J	LBM 2016T100J 8	10	$\pm 5\%$	25	27	1.2	215	2.52
LBQMB201616T120J	LBM 2016T120J 8	12	$\pm 5\%$	25	23	1.4	200	2.52
LBQMB201616T150J	LBM 2016T150J 8	15	$\pm 5\%$	25	20	1.5	190	2.52
LBQMB201616T180J	LBM 2016T180J 8	18	$\pm 5\%$	25	18	2.5	150	2.52
LBQMB201616T220J	LBM 2016T220J 8	22	$\pm 5\%$	25	17	2.8	140	2.52
LBQMB201616T270J	LBM 2016T270J 8	27	$\pm 5\%$	25	16	3.2	130	2.52
LBQMB201616T330J	LBM 2016T330J 8	33	$\pm 5\%$	25	15	3.6	125	2.52
LBQMB201616T390J	LBM 2016T390J 8	39	$\pm 5\%$	20	14	3.9	120	2.52
LBQMB201616T470J	LBM 2016T470J 8	47	$\pm 5\%$	20	13	4.1	115	2.52
LBQMB201616T560J	LBM 2016T560J 8	56	$\pm 5\%$	20	12	5.9	95	2.52
LBQMB201616T680J	LBM 2016T680J 8	68	$\pm 5\%$	20	11	7.0	90	2.52
LBQMB201616T820J	LBM 2016T820J 8	82	$\pm 5\%$	20	10	7.7	85	2.52
LBQMB201616T101J	LBM 2016T101J 8	100	$\pm 5\%$	15	9.0	8.0	80	0.796

・LBQM series
※) Rated Current : The maximum DC value having inductance decrease within 10 % and temperature increase within 20 degC by the application of DC bias.

■ Derating of Rated Current

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



▶ This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our specification.
For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our Web site (<http://www.ty-top.com/>) .