

PRODUCT SPECIFICATIONS



BMLB321608600Y50

CUSTOMER'S PRODUCT NAME:

DATE: 2026.08

SPEC. NO: B-2608-24

THIS SPECIFICATION IS:

- ☐ FULLY ACCEPTED
- ☐ DENIED
- ☐ ACCEPTED UNDER THE FOLLOWING CONDITIONS:

SIGNATURE:

DATE:

NAME(PRINT):

TITLE:



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① Features

- High impedance values for various application
- Noise suppression for high speed signal or power line of electric equipments
- Excellent solderability and heat resistance for reflow soldering
- Internal silver printed layers and magnetic shielded structures to minimize crosstalk

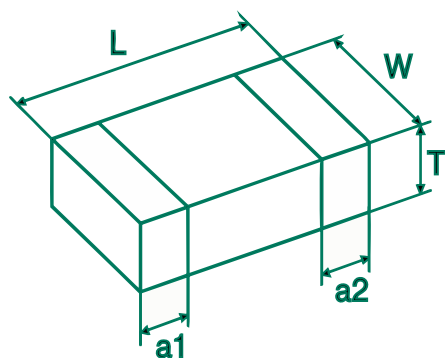
② Application

- Portable Instrumentation
- Notebooks and Digital Cameras
- Communication equipments
- Cellular Handsets and Accessories

③ Part numbering

B	—	MLB	—	321608	—	600	—	Y	—	50
Grade		Product Series		Dimensions(mm)		Impedance (Ω)		Tolerance		Control code

④ Appearance and Dimensions



Dimensions in mm

L 3.20±0.20	W 1.60±0.20
T 0.85±0.20	a1,a2 0.50±0.30

⑤ Rating

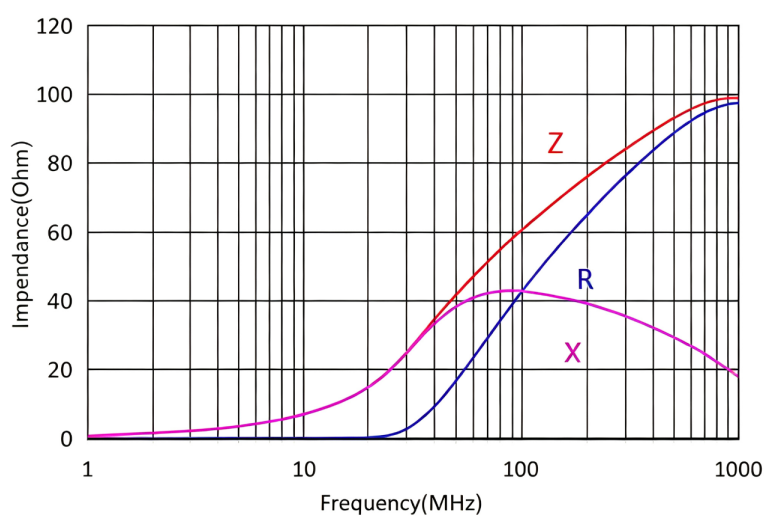
⚠ NOTE Operating Temperature Range : -55 to +125°C

ELECTRICAL CHARACTERISTICS

Part No.	Impedance ($\Omega \pm 25\%$)	Test Freq (Hz)	DCR (Ω)Max	RatedCurrent (mA)Max
BMLB321608600Y50	60	100 MHz	0.018	5000

Typical Eleectrical Characteristics

BMLB321608600Y50



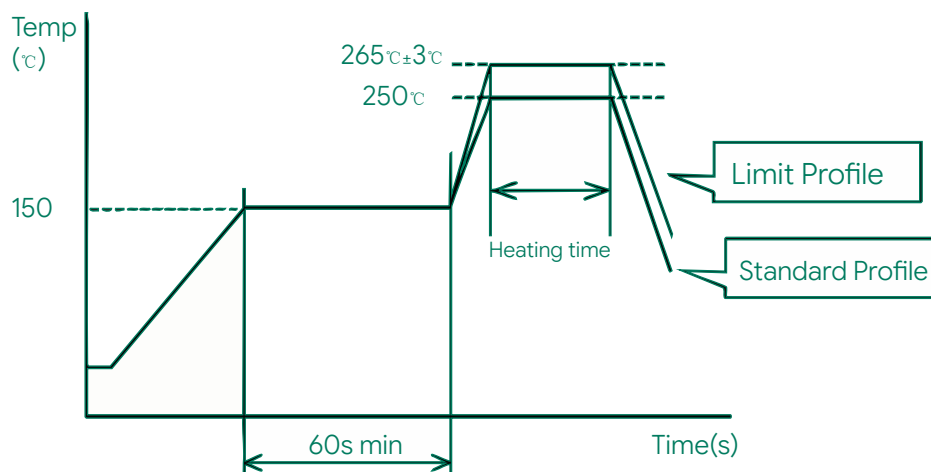
⑥ Reliable Performance

NO.	Item	Specifications	Test Methods																		
1	Solder-Ability	More than 90% of termination should be covered with new solder.	Solder: Sn Temperature: 260 °C ± 5 °C Flux : rosin Duration: 4 ± 1s																		
2	Leaching Resistance	More than 75% of termination should be covered with new solder.	Solder: Sn Temperature : 260 °C ± 5 °C Flux : rosin Duration: 10 ± 1s																		
3	Bending Strength	No mechanical damage should be noticed	When the board curve to 2mm(0.079 inches) <table><thead><tr><th>Size</th><th>A(mm)</th></tr></thead><tbody><tr><td>0603</td><td>0.3</td></tr><tr><td>1005</td><td>0.5</td></tr><tr><td>1608</td><td>0.7</td></tr><tr><td>2012</td><td>1.0</td></tr><tr><td>3216</td><td>1.0</td></tr></tbody></table>	Size	A(mm)	0603	0.3	1005	0.5	1608	0.7	2012	1.0	3216	1.0						
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4	Body Strength	No mechanical damage should be noticed	Applied specified pull strength in axial direction <table><thead><tr><th>Size</th><th>A/mm</th><th>P/N</th></tr></thead><tbody><tr><td>0603</td><td>0.3</td><td>4.9</td></tr><tr><td>1005</td><td>0.7</td><td>4.9</td></tr><tr><td>1608</td><td>1.0</td><td>4.9</td></tr><tr><td>2012</td><td>1.4</td><td>9.8</td></tr><tr><td>3216</td><td>1.4</td><td>9.8</td></tr></tbody></table>	Size	A/mm	P/N	0603	0.3	4.9	1005	0.7	4.9	1608	1.0	4.9	2012	1.4	9.8	3216	1.4	9.8
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5	Terminal Strength	The terminal and body should be no damage	Applied specified pull strength in axial <table><thead><tr><th>Size</th><th>Pull Strength</th><th>Time (s)</th></tr></thead><tbody><tr><td>0603</td><td>2N</td><td>5 ± 1</td></tr><tr><td>1005</td><td>3N</td><td>5 ± 1</td></tr><tr><td>1608</td><td>5N</td><td>5 ± 1</td></tr><tr><td>2012</td><td>10N</td><td>5 ± 1</td></tr><tr><td>3216</td><td>10N</td><td>5 ± 1</td></tr></tbody></table>	Size	Pull Strength	Time (s)	0603	2N	5 ± 1	1005	3N	5 ± 1	1608	5N	5 ± 1	2012	10N	5 ± 1	3216	10N	5 ± 1
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NO.	Item	Specifications	Test Methods
6	Drop	1.No mechanical damage shall be noticed 2. Impedance change: Within $\pm$ 20%	Drop 10 times on a concrete floor from a height of 1m.
7	Vibration	1.No mechanical damage shall be noticed 2. Impedance change: Within $\pm$ 20%	Frequency: 10 to 55Hz Amplitude:1.52mm Direction and time: X, Y and Z directions for 2 hours each.
8	Humidity resistance	1.No mechanical damage shall be noticed 2. Impedance change: Within $\pm$ 20%	a. Test condition Temp: 60 ± 2 °C Humidity: 90%~95% Test time : 1000 h b. Measurement method The component should be stabilized at normal condition for 24 hours before test.
9	High temperature resistance	1.No mechanical damage shall be noticed 2. Impedance change: Within $\pm$ 20%	a. Test condition Applied rated current Temp: 125 ± 2 °C Test time:1000 h b. Measurement method The component should be stabilized at normal condition for 24 hours before test.
10	Low temperature resistance	1.No mechanical damage shall be noticed 2. Impedance change : Within $\pm$ 20%	a. Test condition Temp: -55 ± 2 °C Test time: 1000 h b. Measurement method The component should be stabilized at normal condition for 24 hours before test.
11	Thermal shock	1.No mechanical damage shall be noticed 2. Impedance change : Within $\pm$ 20%	a. Test condition 1) Temp: -55°C , time $30\pm 3\text{min}$ 2) Temp: $+125^{\circ}\text{C}$, time $30\pm 3\text{min}$ 100 cycles b. Measurement method The component should be stabilized at normal condition for 24 hours before test.

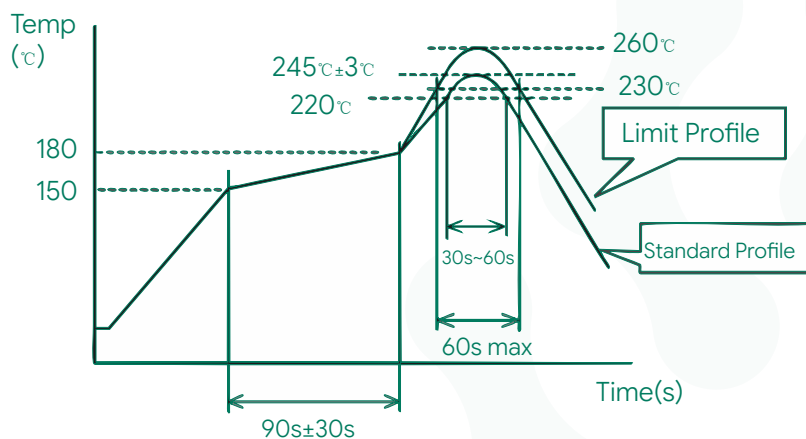
⑦ Recommended Soldering Conditions

Flow soldering profile



	Standard Profile	Limit Profile
Pre-heating	150°C、60s min.	
Heating	250°C、4~6s	265°C±3°C、5s max.
Cycle of flow	2 times	2 times

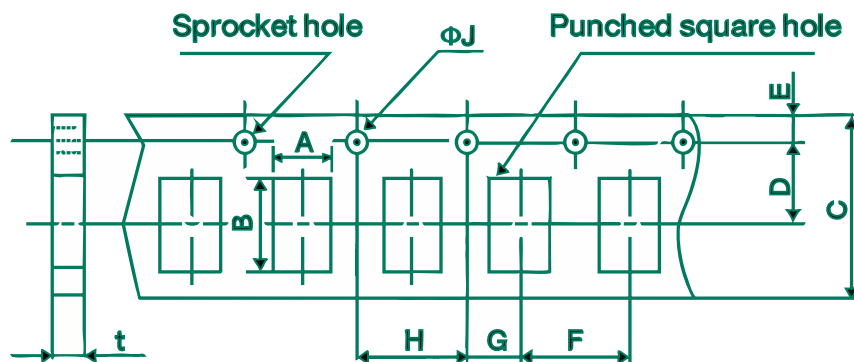
Reflow soldering profile



	Standard Profile	Limit Profile
Pre-heating	150~180°C、90s±30s	
Heating	above 220°C、30s~60s	above 230°C、60s max.
Peak temperature	245±3°C	260°C, 10s
Cycle of reflow	2 times	2 times

⑧ Packaging

8.1 Carrier Tape Dimensions



Tape Dimensions in mm

A	B	C	D	E	F	G	H	Φ J	t(max)
1.8±0.1	3.48±0.1	8.0±0.3	3.5±0.05	1.75±0.1	4.0±0.1	2.0±0.05	4.0±0.1	1.5±0.1	0.95±0.05

8.2 Packaging quantities

TYPE	PCS/REEL
321608	4000

⑨ Rating

1, Storage period

Use the products within 12 months after delivered. Solderability should be checked if this period is exceeded.

2, Storage conditions

- Storage temperature: $\leq 40^{\circ}\text{C}$
- Storage environment: $\leq 70\%$ relative humidity

3, Delivery

Care should be taken when transporting or handling product to avoid excessive vibration or mechanical shock.