

Reference Only

Spec. No. JENF243A-0003AJ-01

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Chip Ferrite Bead BLM18□□□□□□N1□ Reference Specification

1.Scope

This reference specification applies to Chip Ferrite Bead BLM18_□N Series.

2.Part Numbering

(ex.) BL M 18 AG 121 S N 1 D
 (1) (2) (3) (4) (5) (6) (7) (8) (9)

(1)Product ID (2)Type (3)Dimension(L×W) (4)Characteristics (5)Typical Impedance at 100MHz
 (6)Performance (7)Category (8)Numbers of Circuit (9)Packaging(D:Taping / B:Bulk)

3.Rating

Customer Part Number	MURATA Part Number	Impedance (Ω) (at 100MHz, Under Standard Testing Condition)		Rated Current (mA)		DC Resistance (Ω max.)		Remark	
		Typical		at 85°C	at 125°C	Initial Values	Values After Testing		
	BLM18RK121SN1D BLM18RK121SN1B	120±25%	120	200		0.25	0.35	For Digital Interface	
	BLM18RK221SN1D BLM18RK221SN1B	220±25%	220	200		0.30	0.40		
	BLM18RK471SN1D BLM18RK471SN1B	470±25%	470	200		0.50	0.60		
	BLM18RK601SN1D BLM18RK601SN1B	600±25%	600	200		0.60	0.70		
	BLM18RK102SN1D BLM18RK102SN1B	1000±25%	1000	200		0.80	0.90		
	BLM18PG300SN1D BLM18PG300SN1B	20 min.	30	1000		0.05	0.10		For DC power line
	BLM18PG330SN1D BLM18PG330SN1B	33±25%	33	3000*1	1000*1	0.025	0.050		
	BLM18PG600SN1D BLM18PG600SN1B	40 min.	60	1000		0.1	0.2		
	BLM18PG121SN1D BLM18PG121SN1B	120±25%	120	2000*1	1000*1	0.05	0.10		
	BLM18PG181SN1D BLM18PG181SN1B	180±25%	180	1500*1	1000*1	0.09	0.18		
	BLM18PG221SN1D BLM18PG221SN1B	220±25%	220	1400*1	1000*1	0.10	0.14		
	BLM18PG331SN1D BLM18PG331SN1B	330±25%	330	1200*1	1000*1	0.15	0.20		
	BLM18PG471SN1D BLM18PG471SN1B	470±25%	470	1000		0.20	0.26		
	BLM18SP300SN1D BLM18SP300SN1B	30±10	30	6000*1	4000*1	0.008	0.010		
	BLM18SP101SN1D BLM18SP101SN1B	100±25%	100	3700*1	2500*1	0.022	0.026		
	BLM18SP221SN1D BLM18SP221SN1B	220±25%	220	2800*1	1900*1	0.040	0.048		
	BLM18SP601SN1D BLM18SP601SN1B	600±25%	600	1500*1	1000*1	0.140	0.168		
	BLM18SP102SN1D BLM18SP102SN1B	1000±25%	1000	1200*1	800*1	0.185	0.222		

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Customer Part Number	MURATA Part Number	Impedance (Ω) (at 100MHz, Under Standard Testing Condition)		Rated Current (mA)		DC Resistance (Ω max.)		Remark	
		Typical		at 85°C	at 125°C	Initial Values	Values After Testing		
	BLM18KG221SN1D BLM18KG221SN1B	220±25%	220	2200*1	1500*1	0.050	0.060	For DC power line	
	BLM18KG331SN1D BLM18KG331SN1B	330±25%	330	1700*1	1200*1	0.080	0.095		
	BLM18KG471SN1D BLM18KG471SN1B	470±25%	470	1500*1	1000*1	0.130	0.145		
	BLM18KG601SN1D BLM18KG601SN1B	600±25%	600	1300*1	1000*1	0.150	0.165		
	BLM18KG102SN1D BLM18KG102SN1B	1000±25%	1000	1000*1	800*1	0.200	0.230		
	BLM18SD220SN1D BLM18SD220SN1B	22±25%	22	6000*1	3500*1	0.008	0.013		
	BLM18SG330SN1D BLM18SG330SN1B	33±25%	33	6000*1	3500*1	0.008	0.013		
	BLM18AG121SN1D BLM18AG121SN1B	120±25%	120	800		0.18	0.28		For general use
	BLM18AG151SN1D BLM18AG151SN1B	150±25%	150	700		0.25	0.35		
	BLM18AG221SN1D BLM18AG221SN1B	220±25%	220	700		0.25	0.35		
	BLM18AG331SN1D BLM18AG331SN1B	330±25%	330	600		0.30	0.40		
	BLM18AG471SN1D BLM18AG471SN1B	470±25%	470	550		0.35	0.45		
	BLM18AG601SN1D BLM18AG601SN1B	600±25%	600	500		0.38	0.48		
	BLM18AG102SN1D BLM18AG102SN1B	1000±25%	1000	450		0.50	0.60		
	BLM18BB050SN1D BLM18BB050SN1B	5±25%	5	800		0.05	0.10	For high speed signal line	
	BLM18BA050SN1D BLM18BA050SN1B	5±25%	5	500		0.2	0.3		
	BLM18BB100SN1D BLM18BB100SN1B	10±25%	10	700		0.10	0.20		
	BLM18BA100SN1D BLM18BA100SN1B	10±25%	10	500		0.25	0.35		
	BLM18BB220SN1D BLM18BB220SN1B	22±25%	22	700		0.20	0.30		
	BLM18BA220SN1D BLM18BA220SN1B	22±25%	22	500		0.35	0.45		
	BLM18BB470SN1D BLM18BB470SN1B	47±25%	47	600		0.25	0.35		
	BLM18BD470SN1D BLM18BD470SN1B	47±25%	47	500		0.3	0.4		
	BLM18BA470SN1D BLM18BA470SN1B	47±25%	47	300		0.55	0.65		
	BLM18BB600SN1D BLM18BB600SN1B	60±25%	60	600		0.25	0.35		
	BLM18BA750SN1D BLM18BA750SN1B	75±25%	75	300		0.70	0.80		
	BLM18BB750SN1D BLM18BB750SN1B	75±25%	75	600		0.30	0.40		

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Customer Part Number	MURATA Part Number	Impedance (Ω) (at 100MHz, Under Standard Testing Condition)		Rated Current (mA)		DC Resistance (Ω max.)		Remark
		Typical		at 85°C	at 125°C	Initial Values	Values After Testing	
	BLM18BB121SN1D BLM18BB121SN1B	120±25%	120	550		0.30	0.40	For high speed signal line
	BLM18BD121SN1D BLM18BD121SN1B	120±25%	120	300		0.4	0.5	
	BLM18BA121SN1D BLM18BA121SN1B	120±25%	120	200		0.9	1.0	
	BLM18BB141SN1D BLM18BB141SN1B	140±25%	140	500		0.35	0.45	
	BLM18BB151SN1D BLM18BB151SN1B	150±25%	150	450		0.37	0.47	
	BLM18BD151SN1D BLM18BD151SN1B	150±25%	150	300		0.4	0.5	
	BLM18BB221SN1D BLM18BB221SN1B	220±25%	220	450		0.45	0.55	
	BLM18BD221SN1D BLM18BD221SN1B	220±25%	220	250		0.45	0.55	
	BLM18BB331SN1D BLM18BB331SN1B	330±25%	330	400		0.58	0.68	
	BLM18BD331SN1D BLM18BD331SN1B	330±25%	330	250		0.5	0.6	
	BLM18BD421SN1D BLM18BD421SN1B	420±25%	420	250		0.55	0.65	
	BLM18BB471SN1D BLM18BB471SN1B	470±25%	470	300		0.85	0.95	
	BLM18BD471SN1D BLM18BD471SN1B	470±25%	470	250		0.55	0.65	
	BLM18BD601SN1D BLM18BD601SN1B	600±25%	600	200		0.65	0.75	
	BLM18BD102SN1D BLM18BD102SN1B	1000±25%	1000	200		0.85	0.95	
	BLM18BD152SN1D BLM18BD152SN1B	1500±25%	1500	150		1.2	1.3	
	BLM18BD182SN1D BLM18BD182SN1B	1800±25%	1800	150		1.5	1.6	
	BLM18BD222SN1D BLM18BD222SN1B	2200±25%	2200	150		1.5	1.6	
	BLM18BD252SN1D BLM18BD252SN1B	2500±25%	2500	150		1.5	1.6	
	BLM18TG121TN1D BLM18TG121TN1B	120±25%	120	200		0.25	0.3	
	BLM18TG221TN1D BLM18TG221TN1B	220±25%	220	200		0.3	0.4	
	BLM18TG601TN1D BLM18TG601TN1B	600±25%	600	200		0.45	0.6	
	BLM18TG102TN1D BLM18TG102TN1B	1000±25%	1000	100		0.6	0.8	
	BLM18SG260TN1D BLM18SG260TN1B	26±25%	26	6000*1	1000*1	0.007	0.012	For DC power line (Thin type)
	BLM18SG700TN1D BLM18SG700TN1B	70±25%	70	4000*1	1000*1	0.020	0.030	
	BLM18SG121TN1D BLM18SG121TN1B	120±25%	120	3000*1	1000*1	0.025	0.035	

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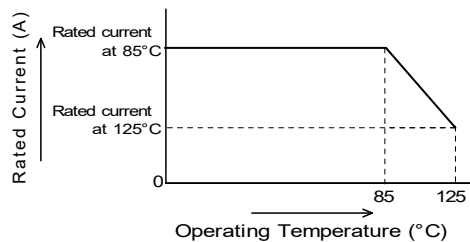
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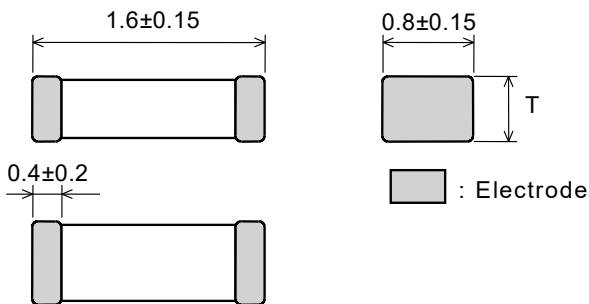
Customer Part Number	MURATA Part Number	Impedance (Ω) (at 100MHz, Under Standard Testing Condition)		Rated Current (mA)		DC Resistance (Ω max.)		Remark
				Typical	at 85°C	at 125°C	Initial Values	
	BLM18SG221TN1D BLM18SG221TN1B	220 \pm 25%	220	2500*1	1000*1	0.040	0.055	For DC power line (Thin type)
	BLM18SG331TN1D BLM18SG331TN1B	330 \pm 25%	330	1500*1	1000*1	0.070	0.085	
	BLM18SN220TN1D BLM18SN220TN1B	22 \pm 7	22	8000*1	5000*1	0.004	0.005	
	BLM18KG260TN1D BLM18KG260TN1B	26 \pm 25%	26	6000*1	4000*1	0.007	0.012	
	BLM18KG300TN1D BLM18KG300TN1B	30 \pm 25%	30	5000*1	3300*1	0.010	0.015	
	BLM18KG700TN1D BLM18KG700TN1B	70 \pm 25%	70	3500*1	2200*1	0.022	0.032	
	BLM18KG101TN1D BLM18KG101TN1B	100 \pm 25%	100	3000*1	1900*1	0.030	0.040	
	BLM18KG121TN1D BLM18KG121TN1B	120 \pm 25%	120	3000*1	1900*1	0.030	0.040	

- Operating Temperature : -55°C to +125°C
- Storage Temperature : -55°C to +125°C

(*1)In case of Rated current is more than 1A,
Rated Current is derated as right figure
depending on the operating temperature.



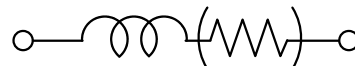
4.Style and Dimensions



P/N	T
BLM18SG***TN1*	0.5 \pm 0.15
BLM18SN***TN1*	0.6 \pm 0.15
BLM18TG***TN1*	0.6 \pm 0.1
BLM18KG***TN1*	0.6 \pm 0.15
BLM18****SN1*	0.8 \pm 0.15

(in mm)

■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Unit Mass (Typical value)

BLM18****SN1*:0.005g
BLM18****TN1*:0.004g

5.Marking

No marking.

6.Standard Testing Conditions

< Unless otherwise specified >

Temperature : Ordinary Temp. (15 °C to 35 °C)
Humidity : Ordinary Humidity (25%(RH) to 85%(RH))

< In case of doubt >

Temperature : 20°C \pm 2 °C
Humidity : 60%(RH) to 70%(RH)
Atmospheric pressure : 86kPa to 106kPa

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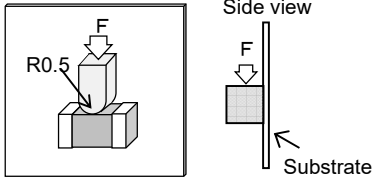
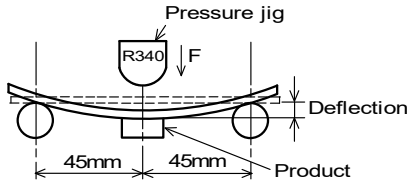
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7. Specifications

7-1. Electrical Performance

No.	Item	Specification	Test Method
7-1-1	Impedance	Meet item 3.	Measuring Frequency : 100MHz±1MHz Measuring Equipment : KEYSIGHT 4991A or the equivalent Test Fixture : KEYSIGHT 16192A or the equivalent
7-1-2	DC Resistance	Meet item 3.	Measuring Equipment : Digital multi meter For BLM18SN_TN Measuring Equipment : YOKOGAWA 755611 or the equivalent Test Fixture : KEYSIGHT 16044A or the equivalent *Except resistance of the Substrate and Wire

7-2. Mechanical Performance

No.	Item	Specification	Test Method						
7-2-1	Appearance and Dimensions	Meet item 4.	Visual Inspection and measured with Slide Calipers.						
7-2-2	Bonding Strength	Meet Table 1. <table border="1" style="width: 100%;"> <caption>Table 1</caption> <tr> <td>Appearance</td> <td>No damage</td> </tr> <tr> <td>Impedance Change (at 100MHz)</td> <td>Within ±30% (for BLM18SN_TN) Within ±50%</td> </tr> <tr> <td>DC Resistance</td> <td>Meet item 3.</td> </tr> </table>	Appearance	No damage	Impedance Change (at 100MHz)	Within ±30% (for BLM18SN_TN) Within ±50%	DC Resistance	Meet item 3.	It shall be soldered on the substrate. Applying Force(F) : 6.8N Applying Time : 5s±1s Applied direction : Parallel to substrate 
Appearance	No damage								
Impedance Change (at 100MHz)	Within ±30% (for BLM18SN_TN) Within ±50%								
DC Resistance	Meet item 3.								
7-2-3	Bending Strength		It shall be soldered on the substrate. Substrate: Glass-epoxy 100mm×40mm×1.6mm Deflection : 1.0mm Speed of Applying Force : 0.5mm/s Keeping Time : 30s 						
7-2-4	Vibration		It shall be soldered on the substrate. Oscillation Frequency : 10Hz to 55Hz to 10Hz for 1 min Total Amplitude : 1.5mm Testing Time : A period of 2 hours in each of 3 mutually perpendicular directions. (Total 6 h)						
7-2-5	Resistance to Soldering Heat	Meet Table 2. <table border="1" style="width: 100%;"> <caption>Table 2</caption> <tr> <td>Appearance</td> <td>No damage</td> </tr> <tr> <td>Impedance Change (at 100MHz)</td> <td>Within ±30% (for BLM18KG) Within ±40% (for BLM18SN_TN) Within ±50%</td> </tr> <tr> <td>DC Resistance</td> <td>Meet item 3.</td> </tr> </table>	Appearance	No damage	Impedance Change (at 100MHz)	Within ±30% (for BLM18KG) Within ±40% (for BLM18SN_TN) Within ±50%	DC Resistance	Meet item 3.	Pre-Heating : 150°C±10°C, 60s~90s Solder : Sn-3.0Ag-0.5Cu Solder Temperature : 270°C±5°C Immersion Time : 10s±0.5s Immersion and emersion rates : 25mm/s Then measured after exposure in the room condition for 48h±4h.
Appearance	No damage								
Impedance Change (at 100MHz)	Within ±30% (for BLM18KG) Within ±40% (for BLM18SN_TN) Within ±50%								
DC Resistance	Meet item 3.								

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No.	Item	Specification	Test Method
7-2-6	Drop	Products shall be no failure after tested.	It shall be dropped on concrete or steel board. Method : free fall Height : 75cm Attitude from which the product is dropped : 3 direction The number of times : 3 times for each direction(Total 9 times)
7-2-7	Solderability	The electrodes shall be at least 95% covered with new solder coating.	Flux : Ethanol solution of rosin,25(wt)% Pre-Heating : 150°C±10°C, 60s~90s Solder : Sn-3.0Ag-0.5Cu Solder Temperature : 240°C±5°C Immersion Time : 3s±1s Immersion and emersion rates : 25mm/s

7-3.Environmental Performance

It shall be soldered on the substrate.

No.	Item	Specification	Test Method						
7-3-1	Temperature Cycle	Meet Table 3. Table 3 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Appearance</td> <td>No damage</td> </tr> <tr> <td>Impedance Change (at 100MHz)</td> <td>Within ±30% (for BLM18KG Within-10%to+50%) (for BLM18SN_TN Within ±50%)</td> </tr> <tr> <td>DC Resistance</td> <td>Meet item 3.</td> </tr> </table>	Appearance	No damage	Impedance Change (at 100MHz)	Within ±30% (for BLM18KG Within-10%to+50%) (for BLM18SN_TN Within ±50%)	DC Resistance	Meet item 3.	1 cycle: 1 step:-55 °C(+0 °C,-3 °C) / 30min±3min 2 step:Ordinary temp. / 10min to 15min 3 step:+125 °C(+3 °C,-0 °C) / 30min±3min 4 step: Ordinary temp. / 10min to 15min Total of 100 cycles Then measured after exposure in the room condition for 48h±4h.
Appearance	No damage								
Impedance Change (at 100MHz)	Within ±30% (for BLM18KG Within-10%to+50%) (for BLM18SN_TN Within ±50%)								
DC Resistance	Meet item 3.								
7-3-2	Humidity	Meet Table 1.	Temperature : 40°C±2°C Humidity : 90%(RH) to 95%(RH) Time : 1000h(+48h,-0h) Then measured after exposure in the room condition for 48h±4h.						
7-3-3	Heat Life		Temperature : 125°C±3°C (in case of Rated current is more than 1A, do the test at : +85 °C±3°C) Applying Current : Rated Current Time : 1000h(+48h,-0h) Then measured after exposure in the room condition for 48h±4h.						
7-3-4	Cold Resistance		Temperature : -55±2°C Time : 1000h(+48h,-0h) Then measured after exposure in the room condition for 48h±4h.						

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8.Specification of Packaging

8-1.Appearance and Dimensions (8mm-wide paper tape)

Part Number	Type	Appearance and Dimensions								
BLM18RK***SN1D BLM18PG***SN1D BLM18AG***SN1D BLM18B****SN1D BLM18KG***N1D BLM18S****SN1D BLM18SN***TN1D	8mm- wide Paper tape 4mm-pitch	<table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th>Item</th> <th>Dimension "a"</th> </tr> </thead> <tbody> <tr> <td>BLM18****SN1D</td> <td>1.1 max.</td> </tr> <tr> <td>BLM18KG***TN1D</td> <td>0.85 max.</td> </tr> <tr> <td>BLM18SN***TN1D</td> <td></td> </tr> </tbody> </table>	Item	Dimension "a"	BLM18****SN1D	1.1 max.	BLM18KG***TN1D	0.85 max.	BLM18SN***TN1D	
Item	Dimension "a"									
BLM18****SN1D	1.1 max.									
BLM18KG***TN1D	0.85 max.									
BLM18SN***TN1D										
BLM18SG***TN1D BLM18TG***TN1D	8mm- wide Paper tape 2mm-pitch									

(in mm)

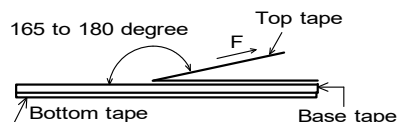
- (1) Taping
Products shall be packaged in the cavity of the base tape continuously and sealed by top tape and bottom tape.
- (2) Sprocket hole: The sprocket holes are to the right as the tape is pulled toward the user.
- (3) Spliced point: The base tape and top tape have no spliced point
- (4) Cavity: There shall not be burr in the cavity.
- (5) Missing components number
Missing components number within 0.025% of the number per reel or 1 pc., whichever is greater, and are not continuous. The specified quantity per reel is kept.

8-2.Tape Strength

(1) Pull Strength

Top tape	5N min.
Bottom tape	

- (2) Peeling off force of Top tape
0.1N to 0.6N (Minimum value is typical.)
*Speed of Peeling off: 300mm/min



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9-2.Limitation of Applications

Please contact us before using our products for the applications listed below which require especially high reliability for the prevention of defects which might directly cause damage to the third party's life, body or property.

- | | |
|-----------------------------------|--|
| (1) Aircraft equipment | (6) Disaster prevention / crime prevention equipment |
| (2) Aerospace equipment | (7) Traffic signal equipment |
| (3) Undersea equipment | (8) Transportation equipment (vehicles, trains, ships, etc.) |
| (4) Power plant control equipment | (9) Data-processing equipment |
| (5) Medical equipment | (10) Applications of similar complexity and /or reliability requirements to the applications listed in the above |

9-3. Corrosive gas

Please refrain from use since contact with environments with corrosive gases (sulfur gas [hydrogen sulfide, sulfur dioxide, etc.], chlorine, ammonia, etc.) or oils (cutting oil, silicone oil, etc.) that have come into contact with the previously stated corrosive gas environment will result in deterioration of product quality or an open from deterioration due to corrosion of product electrode, etc. We will not bear any responsibility for use under these environments.

10. Notice

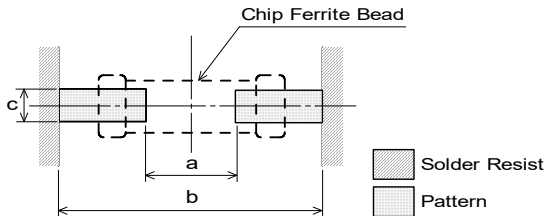
This product is designed for solder mounting.

Please consult us in advance for applying other mounting method such as conductive adhesive.

10-1.Land pattern designing

- Standard land dimensions

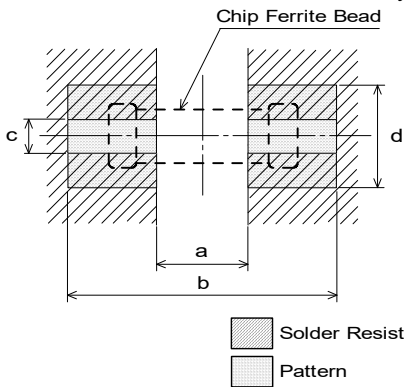
< For BLM18 series (except BLM18P/BLM18S/BLM18K type) >



Type	Soldering	a	b	c
BLM18 (except 18P/18S/BLM18K type)	Flow	0.8	2.5	0.7
	Reflow	0.7	2.0	0.7

(in mm)

< For BLM18P/BLM18S/BLM18K type >



Type	Rated Current (A)	Soldering	a	b	c	Land pad thickness and dimension d		
						18μm	35μm	70μm
BLM18P	0.5 to 1.5	Flow/ Reflow	Flow 0.8 Reflow 0.7	Flow 2.5 Reflow 2.0	0.7	0.7	0.7	0.7
BLM18S	1.7 to 2.5					1.2	0.7	0.7
BLM18K	3 to 4					2.4	1.2	0.7
	5 to 6					6.4	3.3	1.65
BLM18SN	8	-	6.4	3.3				
BLM18SP	1.2 to 6.0	-	6.4	-				

(in mm)

*The excessive heat by land pads may cause deterioration at joint of products with substrate.

10-2.Soldering Conditions

Products can be applied to reflow and flow soldering.

- (1) Flux, Solder

Flux	Use rosin-based flux, but not highly acidic flux (with chlorine content exceeding 0.2(wt)%.) Do not use water-soluble flux.
Solder	Use Sn-3.0Ag-0.5Cu solder Standard thickness of solder paste : 100 μm to 200 μm

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(2) Soldering conditions

- Pre-heating should be in such a way that the temperature difference between solder and ferrite surface is limited to 150°C max. Also cooling into solvent after soldering should be in such a way that the temperature difference is limited to 100°C max.

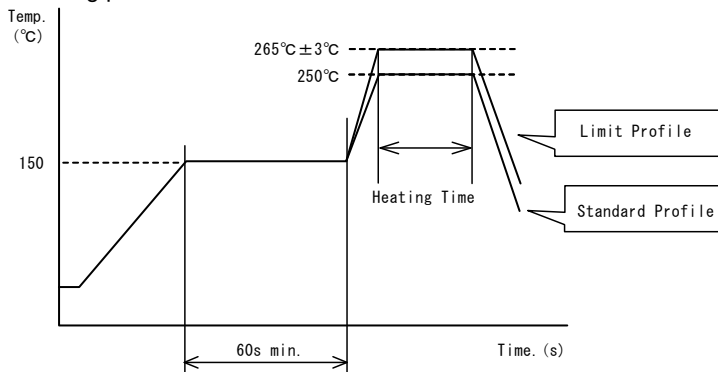
Insufficient pre-heating may cause cracks on the ferrite, resulting in the deterioration of product quality.

- Standard soldering profile and the limit soldering profile is as follows.

The excessive limit soldering conditions may cause leaching of the electrode and / or resulting in the deterioration of product quality.

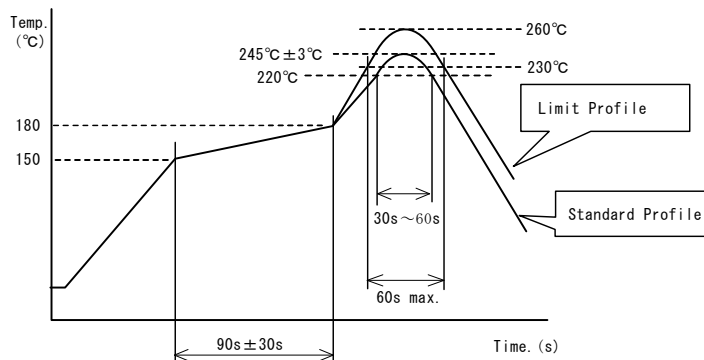
(3) soldering profile

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	

Reflow soldering profile



	Standard Profile	Limit Profile
Pre-heating	150~180°C、90s±30s	
Heating	above 220°C、30s~60s	above 217°C、60s~150s
Peak temperature	245±3°C	260°C,10s
Cycle of reflow	2 times	

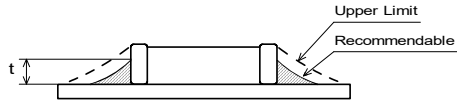
10-3. Reworking with soldering iron

- Pre-heating: 150°C, 1 min
- Tip temperature: 350°C max.
- Soldering time : 3(+1,-0) seconds.
- Soldering iron output: 80W max.
- Tip diameter: φ 3mm max.
- Times : 2times max.

Note :Do not directly touch the products with the tip of the soldering iron in order to prevent the crack on the ferrite material due to the thermal shock.

10-4.Solder Volume

Solder shall be used not to be exceeded as shown below.



$$1/3T \leq t \leq T$$

(T: Chip thickness)

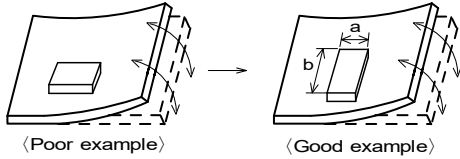
Accordingly increasing the solder volume, the mechanical stress to product is also increased. Exceeding solder volume may cause the failure of mechanical or electrical performance.

10-5.Attention regarding P.C.B. bending

The following shall be considered when designing and laying out P.C.B.'s.

(1) P.C.B. shall be designed so that products are not subject to the mechanical stress for board warpage.

<Products direction>



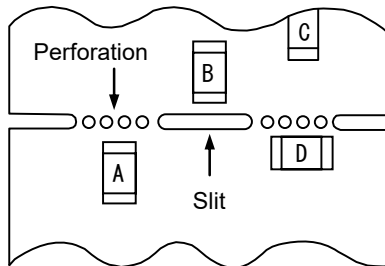
Products shall be located in the sideways direction (Length: a<b) to the mechanical stress.

(2)Components location on P.C.B. separation.

It is effective to implement the following measures, to reduce stress in separating the board.

It is best to implement all of the following three measures; however, implement as many measures as possible to reduce stress.

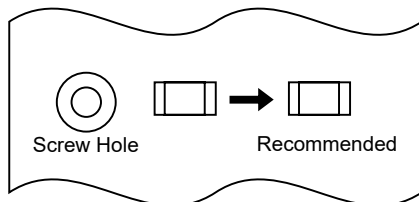
Contents of Measures	Stress Level
(1) Turn the mounting direction of the component parallel to the board separation surface.	A > D *1
(2) Add slits in the board separation part.	A > B
(3) Keep the mounting position of the component away from the board separation surface.	A > C



*1 A > D is valid when stress is added vertically to the perforation as with Hand Separation. If a Cutting Disc is used, stress will be diagonal to the PCB, therefore A > D is invalid.

(3) Mounting Components Near Screw Holes

When a component is mounted near a screw hole, it may be affected by the board deflection that occurs during the tightening of the screw. Mount the component in a position as far away from the screw holes as possible.



10-6.Mounting density

Add special attention to radiating heat of products when mounting the inductor near the products with heating. The excessive heat by other products may cause deterioration at joint of this product with substrate.