



Specification No. JENF243A-0005S-01

Issued Date: Jan. 9, 2013

Reference Specification

Part Description: Chip Ferrite Bead

MURATA Part No: BLM□□□□□□□N1□

RoHS regulation conformity parts.

Technical Dept.

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Chip Ferrite Bead BLM□□□□□□□N1□ Specification

1. Scope

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

2. Part Numbering

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

(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(φ 180mm Reel, Paper Tape)

L:Taping(φ 180mm Reel, Plastic Tape)

B:Bulk

3. Rating

3-1.Part Number,Impedance,Rated Current,DC Resistance:See the Part Number List.

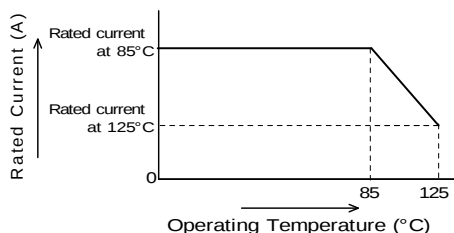
3-2.Operating Temperature : -55°C to +125°C (except BLM21AH102SN1□)

-55°C to +85°C (for BLM21AH102SN1□)

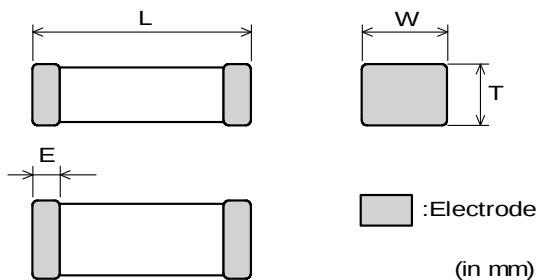
3-3. Storage Temperature : -55°C to +125°C

3-4.Derating

(Note) As for the Rated current marked with *1,
Rated Current is derated as right figure
depending on the operating temperature.

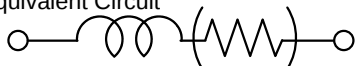


4. Style and Dimensions



Type	L	W	T	E
BLM15	1.0±0.05	0.5 ±0.05	0.5 ±0.05	0.25±0.1
BLM18	1.6±0.15	0.8 ±0.15	0.8 ±0.15 for 18TG□□□TN1□	0.4 ±0.2
			0.6 ±0.1 for 18SG□□□TN1□	
			0.5 ±0.15 fo 18KG□□□TN1□	
BLM21	2.0±0.2	1.25±0.2	0.85±0.2 for 21BD222SN1□	0.5 ±0.2 for 21BD272SN1□
			21BD272SN1□ 1.25±0.2	
BLM31	3.2±0.2	1.6 ±0.2	1.1 ±0.2 for 31AF700SN1□	0.7 ±0.3
			1.6 ±0.2	
BLM41	4.5±0.2	1.6 ±0.2	1.6 ±0.2	0.7 ±0.3

■ Equivalent Circuit



(Resistance element becomes dominant at high frequencies.)

■ Unit Mass (Typical value)

BLM15	0.001g
BLM18□□□□SN1□	0.005g
BLM18□□□□TN1□	0.004g
BLM21	0.010g
BLM31(except BLM31AF)	0.030g
BLM31AF	0.040g
BLM41	0.050g

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±2 °C

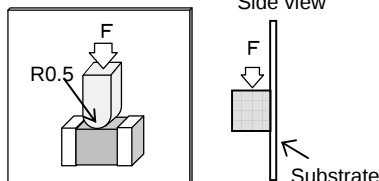
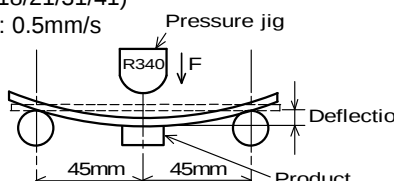
Humidity : 60%(RH) to 70%(RH)

Atmospheric pressure : 86kPa to 106kPa

7. Specifications**7-1. Electrical Performance**

No.	Item	Specification	Test Method
7-1-1	Impedance	Meet item 3.	Measuring Frequency : 100MHz±1MHz Measuring Equipment : Agilent 4291A or the equivalent Test Fixture : Agilent16192A or the equivalent
7-1-2	DC Resistance	Meet item 3.	Measuring Equipment : Digital multi meter

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><tr><td colspan="2">Table 1</td></tr><tr><td>Appearance</td><td>No damage</td></tr><tr><td>Impedance Change (at 100MHz)</td><td>Within ±30%</td></tr><tr><td>DC Resistance</td><td>Meet item 3.</td></tr></table>	Table 1		Appearance	No damage	Impedance Change (at 100MHz)	Within ±30%	DC Resistance	Meet item 3.	It shall be soldered on the substrate. Applying Force(F) : 5N(BLM15) 6.8N(BLM18) 9.8N(BLM21/31/41) Applying Time : 5s±1s 
Table 1											
Appearance	No damage										
Impedance Change (at 100MHz)	Within ±30%										
DC Resistance	Meet item 3.										
7-2-3	Bending Strength		It shall be soldered on the substrate. Substrate: Glass-epoxy 100mm×40mm×1.6mm (for BLM15 type 100mm×40mm×0.8mm) Deflection : 2mm(BLM15) 1mm(BLM18/21/31/41) 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><tr><td colspan="2">Table 2</td></tr><tr><td>Appearance</td><td>No damage</td></tr><tr><td>Impedance Change (at 100MHz)</td><td>Within 30% (for BLM18KG Within ±40%)</td></tr><tr><td>DC Resistance</td><td>Meet item 3.</td></tr></table>	Table 2		Appearance	No damage	Impedance Change (at 100MHz)	Within 30% (for BLM18KG Within ±40%)	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.
Table 2											
Appearance	No damage										
Impedance Change (at 100MHz)	Within 30% (for BLM18KG Within ±40%)										
DC Resistance	Meet item 3.										

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(BLM15/18) 4s±1s(BLM21/31/41) Immersion and emersion rates : 25mm/s

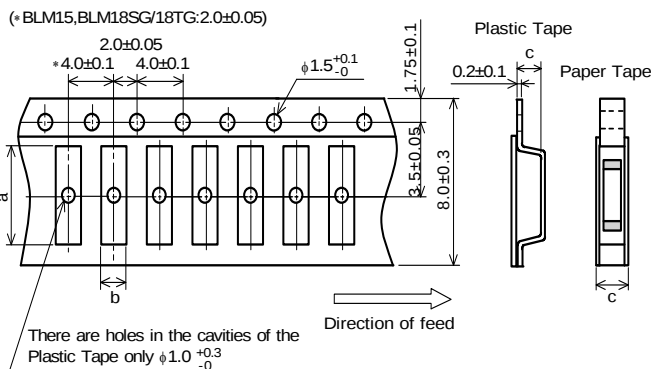
7-3. Environmental Performance

It shall be soldered on the substrate.

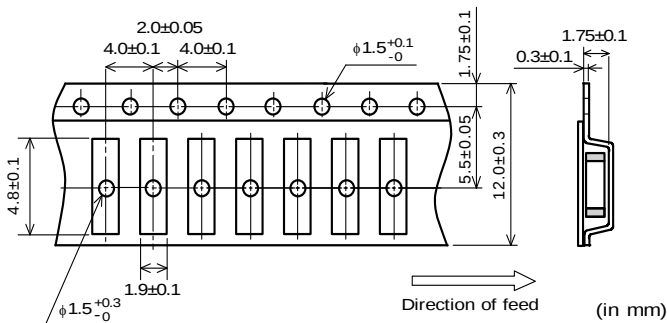
To be soldered on the substrate.												
No.	Item	Specification	Test Method									
7-3-1	Temperature Cycle	Meet Table 3.	1 cycle: 1 step:-55 °C(+0 °C,-3 °C) / 30min±3min 2 step:Ordinary temp. / 10min to 15min 3 step:+125 °C(+3 °C,-0 °C) / 30min±3min (for BLM21AH102SN1□:+85°C(+3 °C,-0 °C)) 4 step: Ordinary temp. / 10min to 15min Total of 100 cycles Then measured after exposure in the room condition for 48h±4h.									
		Table 3										
		Appearance		No damage								
		Impedance Change (at 100MHz)		Within ±30% (for BLM18KG Within -10 % to +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	Meet Table 4.	< BLM Series(except BLM□□PG/18SG/18KG Type)> Temperature : 125°C±3°C (for BLM21AH102SN1□:+85°C±3 °C) Applying Current : Rated Current(at 125°C) (for BLM21AH102SN1□: Rated Current(at 85°C)) Time : 1000h(+48h,-0h) Then measured after exposure in the room condition for 48h±4h.									
		Table 4										
		Appearance		No damage								
		Impedance Change (at 100MHz)		Within ±30% (for BLM15PD Within ±40%)								
		DC Resistance	Meet item 3.									
		Meet Table 1.	< BLM□□PG/18SG/18KG Type> <table><tr><td></td><td>Products with derating curve in Rated Current</td><td>Products without derating curve in Rated Current</td></tr><tr><td>Temperature</td><td>85°C±3°C</td><td>125°C±3°C</td></tr><tr><td>Applying Current</td><td>Rated Current (at 85°C)</td><td>Rated Current (at 125°C)</td></tr></table> Time : 1000h(+48h,-0h) Then measured after exposure in the room condition for 48h±4h.		Products with derating curve in Rated Current	Products without derating curve in Rated Current	Temperature	85°C±3°C	125°C±3°C	Applying Current	Rated Current (at 85°C)	Rated Current (at 125°C)
	Products with derating curve in Rated Current	Products without derating curve in Rated Current										
Temperature	85°C±3°C	125°C±3°C										
Applying Current	Rated Current (at 85°C)	Rated Current (at 125°C)										
7-3-4	Cold Resistance	Meet Table 1.	Temperature : -55±2°C Time : 1000h(+48h,-0h) Then measured after exposure in the room condition for 48h±4h.									

8. Tape Packing**8-1. Appearance and Dimensions**

Part Number	Type	Appearance and Dimensions		
		a	b	c
BLM15	8mm-wide Paper tape 2mm-pitch	1.15 (typ.)	0.65 (typ.)	0.8 max.
BLM18SG***TN1D		1.85 ±0.1	1.05 ±0.1	0.9 max.
BLM18TG***TN1D				1.1 max.
BLM18KG***TN1D				0.85 max.
BLM21 [except 21BD222SN1L 21BD272SN1L]	8mm-wide Paper tape 4mm-pitch	2.25 ±0.1	1.45 ±0.1	1.1 max.
21BD222SN1L 21BD272SN1L	8mm-wide Pastic tape 4mm-pitch	2.25 ±0.1	1.45 ±0.1	1.3±0.1
BLM31				1.3±0.1 (for 31AF 700SN1L) 1.75±0.1
BLM41	12mm-wide Plastic tape 4mm-pitch	4.8 ±0.1	1.9 ±0.1	1.75±0.1



*Dimension of the Cavity is measured at the bottom side.



*Dimension of the Cavity is measured at the bottom side.

(in mm)

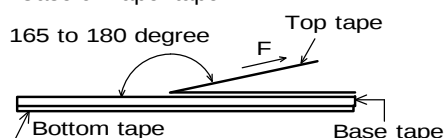
	Paper tape	Plastic tape
Taping	Products shall be packaged in the cavity of the base tape continuously and sealed by top tape and bottom tape.	Products shall be packaged in the each embossed cavity of plastic tape continuously and sealed by cover tape.
Sprocket hole	The sprocket holes are to the right as the tape is pulled toward the user.	
Spliced point	The base tape and top tape have no spliced point.	The cover tape has no spliced point.
Cavity	There shall not be burr in the cavity.	—
Missing components number	Missing components number within 0.1% 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

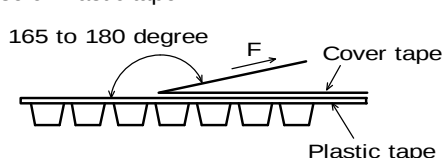
	Pull Strength		Peeling off force of Top tape · Cover tape *
Paper tape	Top tape	5N min.	0.1 to 0.6N
	Bottom tape		
Plastic tape	Plastic tape	5N min.	0.2 to 0.7N
	Cover tape	10N min.	

* Minimum value is typical. Speed of Peeling off : 300mm/minute

•Case of Paper tape



•Case of Plastic tape



8-3. Taping Condition

(1) Standard quantity per reel

Type	Quantity per 180mm reel
BLM15 BLM18SG/BLM18TG	10000 pcs. / reel
BLM18 (except BLM18SG/BLM18TG) BLM21 (except 21BD222SN1L/21BD272SN1L)	4000 pcs. / reel
BLM21BD222SN1L/21BD272SN1L BLM31 (except 31AF700SN1L)	3000 pcs. / reel
BLM31AF700SN1L BLM41	2500 pcs. / reel

(2) There shall be leader-tape (cover tape/top tape and empty tape) and trailer- tape(empty tape) as follows.

(3) On paper tape, the top tape and the base tape shall not be adhered at the tip of the empty leader tape for more than 5 pitch.

(4) Marking for reel

The following items shall be marked on a label and the label is stuck on the reel.

(Customer part number, MURATA part number, Inspection number(*1), RoHS marking(*2), Quantity, etc)

*1) « Expression of Inspection No. »

$\square\square$	$\square\square\square\square$	$\times\times\times$
(1)	(2)	(3)

(1) Factory Code

(2) Date

First digit : Year / Last digit of year

Second digit : Month / Jan. to Sep. → 1 to 9, Oct. to Dec. → O, N, D

Third, Fourth digit : Day

(3) Serial No.

*2) « Expression of RoHS marking »

 ROHS – $\frac{Y}{(1) (2)}$

(1) RoHS regulation conformity parts.

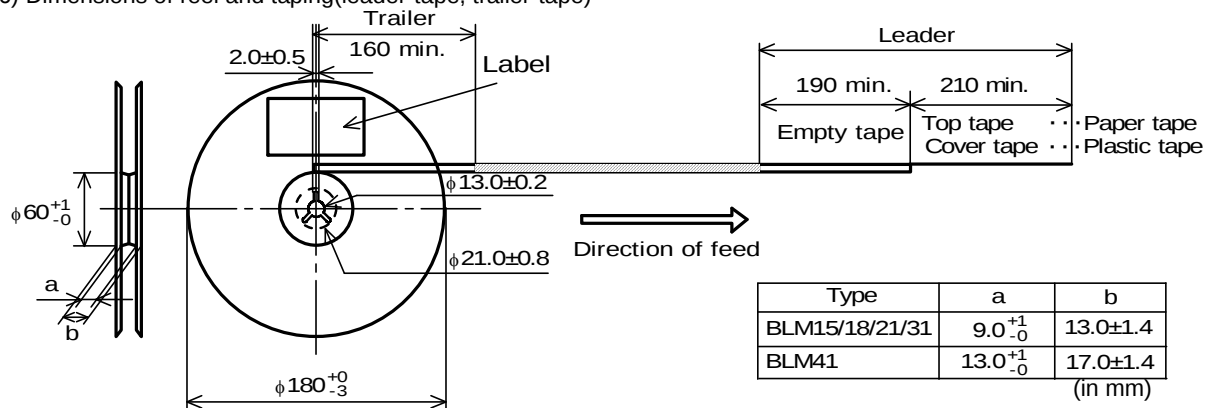
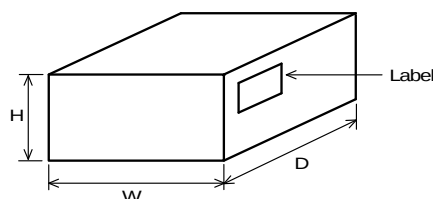
(2) MURATA classification number

(5) Outside package

These reels shall be packed in the corrugated cardboard package and the following items shall be marked on a label and the label is stuck on the box.

(Customer name, Purchasing order number, Customer part number, MURATA part number, RoHS marking (*2), Quantity, etc)

(6) Dimensions of reel and taping(leader-tape, trailer-tape)

**8-4. Specification of Outer Case**

Outer Case Dimensions (mm)			Standard Reel Quantity in Outer Case (Reel)	Type
W	D	H		
186	186	93	5	BLM15 BLM18 BLM21 BLM31
			3	BLM41

* Above Outer Case size is typical. It depends on a quantity of an order.

9. ⚠ Caution**9-1. Surge current**

Excessive surge current (pulse current or rush current) than specified rated current applied to the product may cause a critical failure, such as an open circuit, burnout caused by excessive temperature rise.

Please contact us in advance in case of applying the surge current.

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)Applications of similar complexity and /or reliability requirements to the applications listed in the above |
| (5)Medical equipment | |

10. Notice

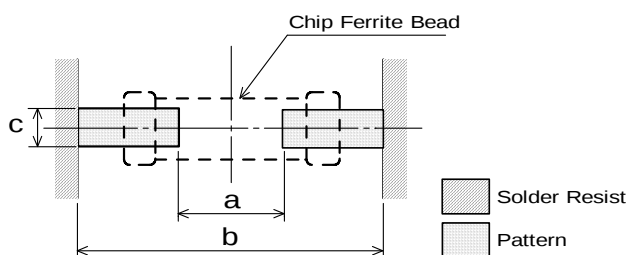
This product is designed for solder mounting.

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

10-1. Land pattern designing

- Standard land dimensions

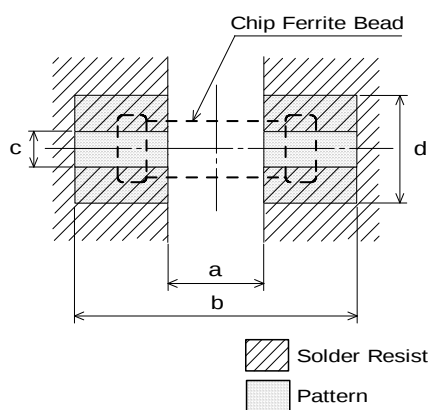
< BLM series (except BLM15AX/15P□/18PG/18SG/18KG/21PG/31PG/41P□ type) >



Type	Soldering	a	b	c
BLM15 (except 15AX/15P□)	Reflow	0.4	1.2 to 1.4	0.5
BLM18 (except 18PG/SG/KG)	Flow Reflow	0.7	2.2 to 2.6 1.8 to 2.0	0.7
BLM21(except 21PG)	Flow/ Reflow	1.2	3.0 to 4.0	1.0
BLM31(except 31PG)		2.0	4.2 to 5.2	1.2
BLM41(except 41P□)		3.0	5.5 to 6.5	

(in mm)

< For BLM15AX/15P□/18PG/18SG/18KG/21PG/31PG/41P□ type >

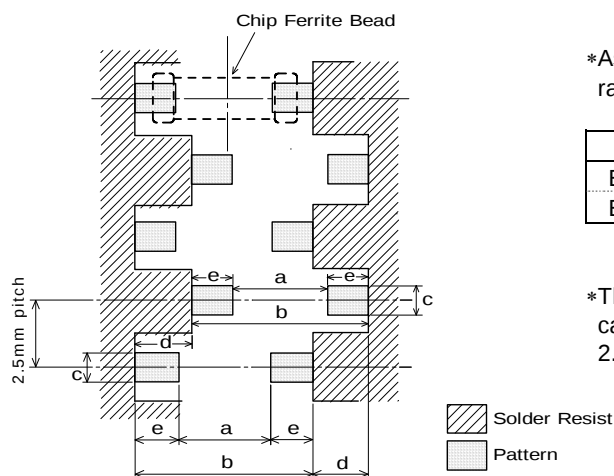


Type	Rated Current (A)	Soldering	a	b	c	Land pad thickness and dimension d		
						18μm	35μm	70μm
BLM15AX BLM15P□	1.5 Max 2.2 Max 3.0 Max	Reflow	0.4	1.2 to 1.4	0.5	0.5	0.5	0.5
						1.2	0.7	0.5
						2.4	1.2	0.5
BLM18PG BLM18SG BLM18KG	0.5 to 1.5 1.7 to 2.5 3~4 5~6	Flow 2.2 to 2.6 Reflow 1.8 to 2.0	0.7	2.2 to 2.6 1.8 to 2.0	0.7	0.7	0.7	0.7
						1.2	0.7	0.7
						2.4	1.2	0.7
						6.4	3.3	1.65
BLM21PG	1.5 2 3~4 6	Flow/ Reflow	1.2	3.0 to 4.0	1.0	1.0	1.0	1.0
						1.2	1.0	1.0
						2.4	1.2	1.0
						6.4	3.3	1.65
BLM31PG	1.5/2 3.5 6		2.0	4.2 to 5.2	1.2	1.2	1.2	1.2
						2.4	1.2	1.2
						6.4	3.3	1.65
						6.4	3.3	1.65
BLM41P□	1 to 2 3.5 6		3.0	5.5 to 6.5	1.2	1.2	1.2	1.2
						2.4	1.2	1.2
						6.4	3.3	1.65
						6.4	3.3	1.65

(in mm)

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

- Land dimensions on Flow soldering for 2.5mm pitch mounting
The applicable part numbers are only BLM31/41 type.



*As for BLM31PG/41P□ type, taking land pad thickness and rated current into account.

Type	a	b	c	d	e
BLM31	2.0	4.2 to 5.2	1.2	1.3	1.35
BLM41	3.0	5.5 to 6.5	1.2	1.8	1.5

(in mm)

*The pattern shall be designed to above drawing to prevent causing the solder bridge when products are mounted by 2.5mm pitch flow soldering.

10-2. Soldering Conditions

Products can be applied to reflow and flow soldering. But BLM15 is adapted for reflow soldering only.

(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

(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.

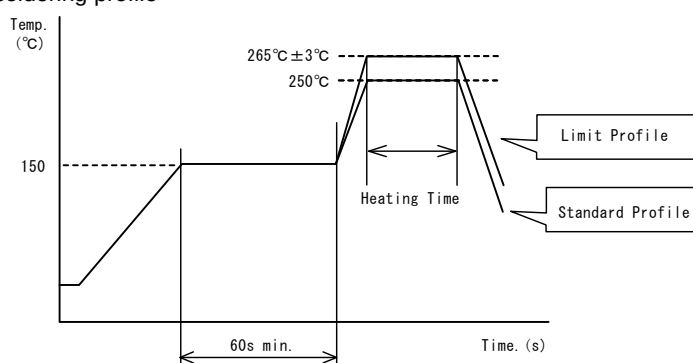
Insufficient pre-heating may cause cracks on the ferrite, resulting in the deterioration of product quality.

- 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.

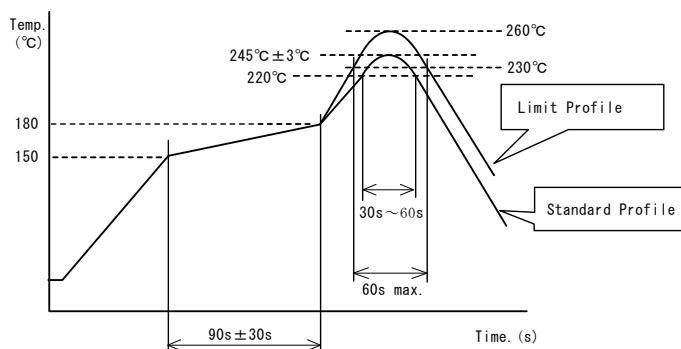
(3) soldering profile

□ 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	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

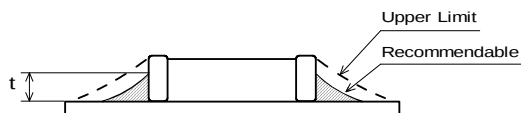
10-3. Reworking with soldering iron

- 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 exceed as shown below.



$$\frac{1}{3}T \leq t \leq T$$

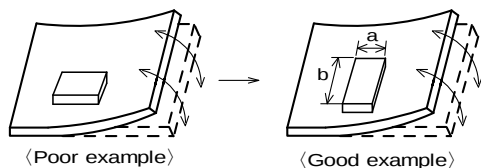
(T:Chip thickness)

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>



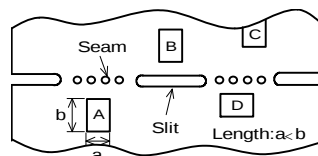
〈Poor example〉

〈Good example〉

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

- (2) Products location on P.C.B. separation.

Products (A, B, C, D) shall be located carefully so that products are not subject to the mechanical stress due to warping the board. Because they may be subjected the mechanical stress in order of $A > C > B \cong D$.



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.

10-7. Operating Environment

Do not use this product under the following environmental conditions, on deterioration of the Insulation Resistance of the Ferrite material and/or corrosion of Inner Electrode may result from the use.

- (1) in the corrodible atmosphere (acidic gases, alkaline gases, chlorine, sulfur gases, organic gases and etc.)
- (2) in the atmosphere where liquid such as organic solvent, may splash on the products.
- (3) in the atmosphere where the temperature / humidity changes rapidly and it is easy to dew.

10-8. Resin coating

The impedance value may change and/or it may affect on the product's performance due to high cure-stress of resin to be used for coating / molding products. So please pay your careful attention when you select resin. In prior to use, please make the reliability evaluation with the product mounted in your application set.

10-9. Cleaning Conditions

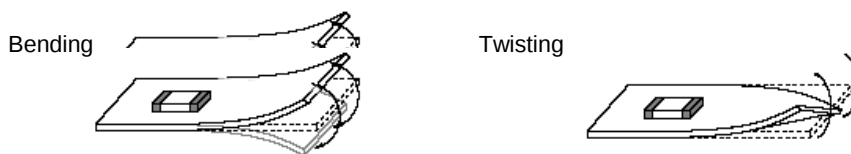
Products shall be cleaned on the following conditions.

- (1) Cleaning temperature shall be limited to 60°C max. (40°C max. for IPA.)
- (2) Ultrasonic cleaning shall comply with the following conditions, avoiding the resonance phenomenon at the mounted products and P.C.B.
Power:20W/ℓ max. Frequency:28kHz to 40kHz Time:5 min max.
- (3) Cleaner
 - 1.Alternative cleaner
 - Isopropyl alcohol (IPA)
 - 2.Aqueous agent
 - PINE ALPHA ST-100S
- (4) There shall be no residual flux and residual cleaner after cleaning.
In the case of using aqueous agent, products shall be dried completely after rinse with de-ionized water in order to remove the cleaner.
- (5) Other cleaning
Please contact us.

10-10. Handling of a substrate

After mounting products on a substrate, do not apply any stress to the product caused by bending or twisting to the substrate when cropping the substrate, inserting and removing a connector from the substrate or tightening screw to the substrate.

Excessive mechanical stress may cause cracking in the product.

**10-11. Storage Conditions**

- (1) Storage period
Use the products within 6 months after delivered.
Solderability should be checked if this period is exceeded.
- (2) Storage conditions
 - Products should be stored the warehouse on the following conditions.
Temperature : -10°C to 40°C
Humidity : 15% to 85% relative humidity
No rapid change on temperature and humidity
 - Don't keep products in corrosive gases such as sulfur, chlorine gas or acid, or it may cause oxidization of electrode, resulting in poor solderability.
 - Products should be stored on the palette for the prevention of the influence from humidity, dust and so on.
 - Products should be stored in the warehouse without heat shock, vibration, direct sunlight and so on.
 - Products should be stored under the airtight packaged condition.
- (3) Delivery
Care should be taken when transporting or handling product to avoid excessive vibration or mechanical shock.

11. ⚠ Note

- (1) Please make sure that your product has been evaluated in view of your specifications with our product being mounted to your product.
- (2) You are requested not to use our product deviating from the agreed specifications.
- (3) The contents of this reference specification are subject to change without advance notice. Please approve our product specifications or transact the approval sheet for product specifications before ordering.

Reference Only

Spec. No. JENF243A-1246T

《Part Number List》

BLM15- 1/3

BLM15 Series

Customer Part Number	MURATA Part Number	Impedance (•) (at 100MHz,Under Standard Testing Condition)	(Note) Rated Current (mA)		DC Resistance (• max.)		Remark	
			Typical	at 85°C	at 125°C	Initial Values		Values After Testing
	BLM15PG100SN1D	5~15	10	1000		0.025	0.05	For DC power line
	BLM15PG100SN1B							
	BLM15PD300SN1D	30±25%	30	2200 ^{*1}	1400 ^{*1}	0.035	0.05	
	BLM15PD300SN1B							
	BLM15PD600SN1D	60±25%	60	1700 ^{*1}	1100 ^{*1}	0.06	0.075	
	BLM15PD600SN1B							
	BLM15PD800SN1D	80±25%	80	1500 ^{*1}	1000 ^{*1}	0.07	0.085	
	BLM15PD800SN1B							
	BLM15PD121SN1D	120±25%	120	1300 ^{*1}	900 ^{*1}	0.09	0.105	
	BLM15PD121SN1B							
	BLM15PX330SN1D	33±25%	33	3000 ^{*1}	1700 ^{*1}	0.022	0.037	
	BLM15PX330SN1B							
	BLM15PX600SN1D	60±25%	60	2500 ^{*1}	1400 ^{*1}	0.032	0.047	
	BLM15PX600SN1B							
	BLM15PX800SN1D	80±25%	80	2300 ^{*1}	1300 ^{*1}	0.038	0.053	
	BLM15PX800SN1B							
	BLM15PX121SN1D	120±25%	120	2000 ^{*1}	1100 ^{*1}	0.055	0.070	
	BLM15PX121SN1B							
	BLM15PX181SN1D	180±25%	180	1500 ^{*1}	800 ^{*1}	0.090	0.105	
	BLM15PX181SN1B							
	BLM15PX221SN1D	220±25%	220	1400 ^{*1}	800 ^{*1}	0.10	0.115	
	BLM15PX221SN1B							
	BLM15PX331SN1D	330±25%	330	1200 ^{*1}	700 ^{*1}	0.15	0.165	
	BLM15PX331SN1B							
	BLM15PX471SN1D	470±25%	470	1000 ^{*1}	600 ^{*1}	0.20	0.22	
	BLM15PX471SN1B							
	BLM15PX601SN1D	600±25%	600	900 ^{*1}	500 ^{*1}	0.23	0.25	
	BLM15PX601SN1B							
	BLM15AG100SN1D	5~15	10	1000		0.025	0.05	For general use
	BLM15AG100SN1B							
	BLM15AG700SN1D	40~100	70	600		0.15	0.2	
	BLM15AG700SN1B							
	BLM15AG121SN1D	120±25%	120	550		0.19	0.29	
	BLM15AG121SN1B							
	BLM15AG221SN1D	220±25%	220	450		0.29	0.39	
	BLM15AG221SN1B							
	BLM15AG601SN1D	600±25%	600	300		0.52	0.62	
	BLM15AG601SN1B							
	BLM15AG102SN1D	1000±25%	1000	300		0.65	0.75	
	BLM15AG102SN1B							
	BLM15AX100SN1D	5~15	10	1740		0.015	0.025	
	BLM15AX100SN1B							
	BLM15AX300SN1D	30±25%	30	1100		0.06	0.11	
	BLM15AX300SN1B							
	BLM15AX700SN1D	70±25%	70	780		0.10	0.15	
	BLM15AX700SN1B							
	BLM15AX121SN1D	120±25%	120	680		0.13	0.18	
	BLM15AX121SN1B							
	BLM15AX221SN1D	220±25%	220	580		0.18	0.23	
	BLM15AX221SN1B							
	BLM15AX601SN1D	600±25%	600	420		0.34	0.39	
	BLM15AX601SN1B							
	BLM15AX102SN1D	1000±25%	1000	350		0.49	0.54	
	BLM15AX102SN1B							

Reference Only

Spec. No. JENF243A-1246T

《Part Number List》

BLM15- 2/3

BLM15 Series

Customer Part Number	MURATA Part Number	Impedance (•) (at 100MHz,Under Standard Testing Condition)	(Note) Rated Current (mA)		DC Resistance (• max.)		Remark
			Typical	at 85°C at 125°C	Initial Values	Values After Testing	
	BLM15BA050SN1D	5±25%	5	300	0.10	0.15	For high speed signal line
	BLM15BA050SN1B						
	BLM15BB050SN1D	5±25%	5	500	0.08	0.15	
	BLM15BB050SN1B						
	BLM15BA100SN1D	10±25%	10	300	0.20	0.25	
	BLM15BA100SN1B						
	BLM15BB100SN1D	10±25%	10	300	0.10	0.15	
	BLM15BB100SN1B						
	BLM15BA220SN1D	22±25%	22	300	0.30	0.35	
	BLM15BA220SN1B						
	BLM15BB220SN1D	22±25%	22	300	0.20	0.30	
	BLM15BB220SN1B						
	BLM15BA330SN1D	33±25%	33	300	0.40	0.45	
	BLM15BA330SN1B						
	BLM15BA470SN1D	47±25%	47	200	0.60	0.65	
	BLM15BA470SN1B						
	BLM15BB470SN1D	47±25%	47	300	0.35	0.45	
	BLM15BB470SN1B						
	BLM15BA750SN1D	75±25%	75	200	0.80	0.85	
	BLM15BA750SN1B						
	BLM15BB750SN1D	75±25%	75	300	0.40	0.50	
	BLM15BB750SN1B						
	BLM15BD750SN1D	75±25%	75	300	0.20	0.30	
	BLM15BD750SN1B						
	BLM15BB121SN1D	120±25%	120	300	0.55	0.65	
	BLM15BB121SN1B						
	BLM15BC121SN1D	120±25%	120	350	0.45	0.50	
	BLM15BC121SN1B						
	BLM15BD121SN1D	120±25%	120	300	0.30	0.40	
	BLM15BD121SN1B						
	BLM15BB221SN1D	220±25%	220	200	0.80	0.90	
	BLM15BB221SN1B						
	BLM15BD221SN1D	220±25%	220	300	0.40	0.50	
	BLM15BD221SN1B						
	BLM15BC241SN1D	240±25%	240	250	0.70	0.75	
	BLM15BC241SN1B						
	BLM15BD471SN1D	470±25%	470	200	0.60	0.70	
	BLM15BD471SN1B						
	BLM15BD601SN1D	600±25%	600	200	0.65	0.75	
	BLM15BD601SN1B						
	BLM15BD102SN1D	1000±25%	1000	200	0.90	1.0	
	BLM15BD102SN1B						
	BLM15BD182SN1D	1800±25%	1800	100	1.4	1.5	
	BLM15BD182SN1B						

Reference Only

Spec. No. JENF243A-1246T

《Part Number List》

BLM15- 3/3

BLM15 Series

Customer Part Number	MURATA Part Number	Impedance (・) (at 100MHz,Under Standard Testing Condition)	(Note) Rated Current (mA)		DC Resistance (・ max.)		Remark
			Typical	at 85℃ at 125℃	Initial	Values	
		Values			After Testing		
	BLM15BX750SN1D	75±25%	75	600	0.15	0.20	For high speed signal line
	BLM15BX750SN1B						
	BLM15BX121SN1D	120±25%	120	600	0.17	0.22	
	BLM15BX121SN1B						
	BLM15BX221SN1D	220±25%	220	450	0.27	0.32	
	BLM15BX221SN1B						
	BLM15BX471SN1D	470±25%	470	350	0.41	0.46	
	BLM15BX471SN1B						
	BLM15BX601SN1D	600±25%	600	350	0.46	0.51	
	BLM15BX601SN1B						
	BLM15BX102SN1D	1000±25%	1000	300	0.65	0.75	
	BLM15BX102SN1B						
	BLM15BX182SN1D	1800±25%	1800	250	0.90	1.0	
	BLM15BX182SN1B						

Reference Only

Spec. No. JENF243A-1246T

◀ Part Number List ▶

BLM18-1/3

BLM18 Series

Customer Part Number	MURATA Part Number	Impedance (•) (at 100MHz,Under Standard Testing Condition)	(Note) Rated Current (mA)		DC Resistance (• max.)		Remark
			at 85℃	at 125℃	Initial Values	Values After Testing	
	BLM18RK121SN1D	120±25%	200		0.25	0.35	For Digital Interface
	BLM18RK121SN1B						
	BLM18RK221SN1D	220±25%	200		0.30	0.40	
	BLM18RK221SN1B						
	BLM18RK471SN1D	470±25%	200		0.50	0.60	
	BLM18RK471SN1B						
	BLM18RK601SN1D	600±25%	200		0.60	0.70	
	BLM18RK601SN1B						
	BLM18RK102SN1D	1000±25%	200		0.80	0.90	
	BLM18RK102SN1B						
	BLM18PG300SN1D	20 min. (Typ.30)	1000		0.05	0.10	For DC power line
	BLM18PG300SN1B						
	BLM18PG330SN1D	33±25%	3000 ^{*1}	1000 ^{*1}	0.025	0.050	
	BLM18PG330SN1B						
	BLM18PG600SN1D	40 min. (Typ.60)	500		0.1	0.2	
	BLM18PG600SN1B						
	BLM18PG121SN1D	120±25%	2000 ^{*1}	1000 ^{*1}	0.050	0.100	
	BLM18PG121SN1B						
	BLM18PG181SN1D	180±25%	1500 ^{*1}	1000 ^{*1}	0.090	0.180	
	BLM18PG181SN1B						
	BLM18PG221SN1D	220±25%	1400 ^{*1}	1000 ^{*1}	0.10	0.14	
	BLM18PG221SN1B						
	BLM18PG331SN1D	330±25%	1200 ^{*1}	1000 ^{*1}	0.15	0.20	
	BLM18PG331SN1B						
	BLM18PG471SN1D	470±25%	1000		0.20	0.26	
	BLM18PG471SN1B						
	BLM18KG221SN1D	220±25%	2200 ^{*1}	1000 ^{*1}	0.050	0.060	
	BLM18KG221SN1B						
	BLM18KG331SN1D	330±25%	1700 ^{*1}	1000 ^{*1}	0.080	0.095	
	BLM18KG331SN1B						
	BLM18KG471SN1D	470±25%	1500 ^{*1}	1000 ^{*1}	0.130	0.145	
	BLM18KG471SN1B						
	BLM18KG601SN1D	600±25%	1300 ^{*1}	1000 ^{*1}	0.150	0.165	
	BLM18KG601SN1B						
	BLM18AG121SN1D	120±25%	500		0.18	0.28	For general use
	BLM18AG121SN1B						
	BLM18AG151SN1D	150±25%	500		0.25	0.35	
	BLM18AG151SN1B						
	BLM18AG221SN1D	220±25%	500		0.25	0.35	
	BLM18AG221SN1B						
	BLM18AG331SN1D	330±25%	500		0.30	0.40	
	BLM18AG331SN1B						
	BLM18AG471SN1D	470±25%	500		0.35	0.45	
	BLM18AG471SN1B						
	BLM18AG601SN1D	600±25%	500		0.38	0.48	
	BLM18AG601SN1B						
	BLM18AG102SN1D	1000±25%	400		0.50	0.60	
	BLM18AG102SN1B						

Reference Only

Spec. No. JENF243A-1246T

◀ Part Number List ▶

BLM18-2/3

BLM18 Series

Customer Part Number	MURATA Part Number	Impedance (•) (at 100MHz, Under Standard Testing Condition)	Rated Current (mA)		DC Resistance (• max.)		Remark
			at 85°C	at 125°C	Initial Values	Values After Testing	
	BLM18BB050SN1D BLM18BB050SN1B	5±25%	700		0.05	0.10	For high speed signal line
	BLM18BA050SN1D BLM18BA050SN1B	5±25%	500		0.2	0.3	
	BLM18BB100SN1D BLM18BB100SN1B	10±25%	700		0.10	0.20	
	BLM18BA100SN1D BLM18BA100SN1B	10±25%	500		0.25	0.35	
	BLM18BB220SN1D BLM18BB220SN1B	22±25%	600		0.20	0.30	
	BLM18BA220SN1D BLM18BA220SN1B	22±25%	500		0.35	0.45	
	BLM18BB470SN1D BLM18BB470SN1B	47±25%	550		0.25	0.35	
	BLM18BD470SN1D BLM18BD470SN1B	47±25%	500		0.3	0.4	
	BLM18BA470SN1D BLM18BA470SN1B	47±25%	300		0.55	0.65	
	BLM18BB600SN1D BLM18BB600SN1B	60±25%	550		0.25	0.35	
	BLM18BA750SN1D BLM18BA750SN1B	75±25%	300		0.70	0.80	
	BLM18BB750SN1D BLM18BB750SN1B	75±25%	500		0.30	0.40	
	BLM18BB121SN1D BLM18BB121SN1B	120±25%	500		0.30	0.40	
	BLM18BD121SN1D BLM18BD121SN1B	120±25%	200		0.4	0.5	
	BLM18BA121SN1D BLM18BA121SN1B	120±25%	200		0.9	1.0	
	BLM18BB141SN1D BLM18BB141SN1B	140±25%	450		0.35	0.45	
	BLM18BB151SN1D BLM18BB151SN1B	150±25%	450		0.37	0.47	
	BLM18BD151SN1D BLM18BD151SN1B	150±25%	200		0.4	0.5	
	BLM18BB221SN1D BLM18BB221SN1B	220±25%	450		0.45	0.55	
	BLM18BD221SN1D BLM18BD221SN1B	220±25%	200		0.45	0.55	
	BLM18BB331SN1D BLM18BB331SN1B	330±25%	400		0.58	0.68	
	BLM18BD331SN1D BLM18BD331SN1B	330±25%	200		0.5	0.6	
	BLM18BD421SN1D BLM18BD421SN1B	420±25%	200		0.55	0.65	
	BLM18BB471SN1D BLM18BB471SN1B	470±25%	300		0.85	0.95	

Reference Only

Spec. No. JENF243A-1246T

◀ Part Number List ▶

BLM18-3/3

BLM18 Series

Customer Part Number	MURATA Part Number	Impedance (•) (at 100MHz,Under Standard Testing Condition)	(Note) Rated Current (mA)		DC Resistance (• max.)		Remark
			at 85℃	at 125℃	Initial Values	Values After Testing	
	BLM18BD471SN1D	470±25%	200		0.55	0.65	For high speed signal line
	BLM18BD471SN1B						
	BLM18BD601SN1D	600±25%	200		0.65	0.75	
	BLM18BD601SN1B						
	BLM18BD102SN1D	1000±25%	100		0.85	0.95	
	BLM18BD102SN1B						
	BLM18BD152SN1D	1500±25%	50		1.2	1.3	
	BLM18BD152SN1B						
	BLM18BD182SN1D	1800±25%	50		1.5	1.6	
	BLM18BD182SN1B						
	BLM18BD222SN1D	2200±25%	50		1.5	1.6	
	BLM18BD222SN1B						
	BLM18BD252SN1D	2500±25%	50		1.5	1.6	
	BLM18BD252SN1B						
	BLM18TG121TN1D	120±25%	200		0.25	0.3	For general use (Thin type)
	BLM18TG121TN1B						
	BLM18TG221TN1D	220±25%	200		0.3	0.4	
	BLM18TG221TN1B						
	BLM18TG601TN1D	600±25%	200		0.45	0.6	
	BLM18TG601TN1B						
	BLM18TG102TN1D	1000±25%	100		0.6	0.8	
	BLM18TG102TN1B						
	BLM18SG260TN1D	26±25%	6000 ^{*1}	1000 ^{*1}	0.007	0.012	For DC power line (Thin type)
	BLM18SG260TN1B						
	BLM18SG700TN1D	70±25%	4000 ^{*1}	1000 ^{*1}	0.020	0.030	
	BLM18SG700TN1B						
	BLM18SG121TN1D	120±25%	3000 ^{*1}	1000 ^{*1}	0.025	0.035	
	BLM18SG121TN1B						
	BLM18SG221TN1D	220±25%	2500 ^{*1}	1000 ^{*1}	0.040	0.055	
	BLM18SG221TN1B						
	BLM18SG331TN1D	330±25%	1500 ^{*1}	1000 ^{*1}	0.070	0.085	
	BLM18SG331TN1B						
	BLM18KG260TN1D	26±25%	6000 ^{*1}	1000 ^{*1}	0.007	0.012	
	BLM18KG260TN1B						
	BLM18KG300TN1D	30±25%	5000 ^{*1}	1000 ^{*1}	0.010	0.015	
	BLM18KG300TN1B						
	BLM18KG700TN1D	70±25%	3500 ^{*1}	1000 ^{*1}	0.022	0.032	
	BLM18KG700TN1B						
	BLM18KG101TN1D	100±25%	3000 ^{*1}	1000 ^{*1}	0.030	0.040	
	BLM18KG101TN1B						
	BLM18KG121TN1D	120±25%	3000 ^{*1}	1000 ^{*1}	0.030	0.040	
	BLM18KG121TN1B						

Reference Only

Spec. No. JENF243A-1246T

《Part Number List》

BLM21- 1/2

BLM21 Series

Customer Part Number	MURATA Part Number	Impedance (Ω) (at 100MHz,Under Standard Testing Condition)	(Note) Rated Current (mA)		DC Resistance (Ω max.)		Remark
			at 85℃	at 125℃	Initial Values	Values After Testing	
	BLM21RK121SN1D	120±25%	200		0.15	0.25	For Digital Interface
	BLM21RK121SN1B						
	BLM21RK221SN1D	220±25%	200		0.20	0.30	
	BLM21RK221SN1B						
	BLM21RK471SN1D	470±25%	200		0.25	0.35	
	BLM21RK471SN1B						
	BLM21RK601SN1D	600±25%	200		0.30	0.40	
	BLM21RK601SN1B						
	BLM21RK102SN1D	1000±25%	200		0.50	0.60	
	BLM21RK102SN1B						
	BLM21PG220SN1D	22±25%	6000* ¹	1000* ¹	0.009	0.018	For DC power line
	BLM21PG220SN1B						
	BLM21PG300SN1D	20 min. (Typ.30)	4000* ¹	1000* ¹	0.014	0.028	
	BLM21PG300SN1B						
	BLM21PG600SN1D	60±25%	3500* ¹	1000* ¹	0.02	0.04	
	BLM21PG600SN1B						
	BLM21PG121SN1D	120±25%	3000* ¹	1000* ¹	0.03	0.06	
	BLM21PG121SN1B						
	BLM21PG221SN1D	220±25%	2000* ¹	1000* ¹	0.045	0.09	
	BLM21PG221SN1B						
	BLM21PG331SN1D	330±25%	1500* ¹	1000* ¹	0.07	0.14	
	BLM21PG331SN1B						
	BLM21BB050SN1D	5±25%	1000		0.02	0.04	For high speed signal line
	BLM21BB050SN1B						
	BLM21BB600SN1D	60±25%	800		0.13	0.23	
	BLM21BB600SN1B						
	BLM21BB750SN1D	75±25%	700		0.16	0.26	
	BLM21BB750SN1B						
	BLM21BB121SN1D	120±25%	600		0.19	0.29	
	BLM21BB121SN1B						
	BLM21BD121SN1D	120±25%	200		0.25	0.35	
	BLM21BD121SN1B						
	BLM21BB151SN1D	150±25%	600		0.21	0.31	
	BLM21BB151SN1B						
	BLM21BD151SN1D	150±25%	200		0.25	0.35	
	BLM21BD151SN1B						
	BLM21BB201SN1D	200±25%	500		0.26	0.36	
	BLM21BB201SN1B						
	BLM21BB221SN1D	220±25%	500		0.26	0.36	
	BLM21BB221SN1B						
	BLM21BD221SN1D	220±25%	200		0.25	0.35	
	BLM21BD221SN1B						
	BLM21BB331SN1D	330±25%	400		0.33	0.43	
	BLM21BB331SN1B						
	BLM21BD331SN1D	330±25%	200		0.3	0.4	
	BLM21BD331SN1B						
	BLM21BD421SN1D	420±25%	200		0.3	0.4	
	BLM21BD421SN1B						
	BLM21BB471SN1D	470±25%	400		0.40	0.50	
	BLM21BB471SN1B						

Reference Only

Spec. No. JENF243A-1246T

《Part Number List》

BLM21- 2/2

BLM21 Series

Customer Part Number	MURATA Part Number	Impedance (Ω) (at 100MHz, Under Standard Testing Condition)	Rated Current (mA)		DC Resistance (Ω max.)		Remark
			at 85°C	at 125°C	Initial Values	Values After Testing	
	BLM21BD471SN1D	470±25%	200		0.35	0.45	
	BLM21BD471SN1B						
	BLM21BD601SN1D	600±25%	200		0.35	0.45	
	BLM21BD601SN1B						
	BLM21BD751SN1D	750±25%	200		0.4	0.5	
	BLM21BD751SN1B						
	BLM21BD102SN1D	1000±25%	200		0.4	0.5	
	BLM21BD102SN1B						
	BLM21BD152SN1D	1500±25%	200		0.45	0.55	
	BLM21BD152SN1B						
	BLM21BD182SN1D	1800±25%	200		0.5	0.6	
	BLM21BD182SN1B						
	BLM21BD222SN1L	1600 min. (Typ.2250)	200		0.6	0.7	
	BLM21BD222SN1B						
	BLM21BD222TN1D	2200±25%	200		0.6	0.7	
	BLM21BD222TN1B						
	BLM21BD272SN1L	2700±25%	200		0.8	0.9	
	BLM21BD272SN1B						
	BLM21AG121SN1D	120±25%	800		0.10	0.20	For general use
	BLM21AG121SN1B						
	BLM21AG151SN1D	150±25%	800		0.10	0.20	
	BLM21AG151SN1B						
	BLM21AG221SN1D	220±25%	800		0.13	0.23	
	BLM21AG221SN1B						
	BLM21AG331SN1D	330±25%	700		0.16	0.26	
	BLM21AG331SN1B						
	BLM21AG471SN1D	470±25%	700		0.19	0.29	
	BLM21AG471SN1B						
	BLM21AG601SN1D	600±25%	600		0.21	0.31	
	BLM21AG601SN1B						
	BLM21AG102SN1D	1000±25%	500		0.28	0.38	
	BLM21AG102SN1B						
	BLM21BD751CN1D	500 min. (Typ.750)	200		0.4	0.5	*
	BLM21BD751CN1B						
	BLM21AF121SN1D	120±25%	200		0.4	0.5	*
	BLM21AF121SN1B						
	BLM21AJ401SN1D	400±25%	200		0.85	0.95	*
	BLM21AJ401SN1B						
	BLM21AJ601SN1D	600±25%	200		1.1	1.2	*
	BLM21AJ601SN1B						
	BLM21AH102SN1D	1000±25%	200	—	0.45	0.55	*
	BLM21AH102SN1B						

* This part can be used only for existing design.
For new designs, alternative parts should be used.
Please contact our sales.

Reference Only

Spec. No. JENF243A-1246T

《Part Number List》

BLM31-1/1

BLM31 Series

Customer Part Number	MURATA Part Number	Impedance (Ω) (at 100MHz,Under Standard Testing Condition)	(Note) Rated Current (mA)		DC Resistance (Ω max.)		Remark
			at 85℃	at 125℃	Initial Values	Values After Testing	
	BLM31PG330SN1L	33±25%	6000 ^{*1}	1000 ^{*1}	0.009	0.018	For DC power line
	BLM31PG330SN1B						
	BLM31PG500SN1L	35 min. (Typ.50)	3500 ^{*1}	1000 ^{*1}	0.015	0.03	
	BLM31PG500SN1B						
	BLM31PG121SN1L	120±25%	3500 ^{*1}	1000 ^{*1}	0.02	0.04	
	BLM31PG121SN1B						
	BLM31PG391SN1L	390±25%	2000 ^{*1}	1000 ^{*1}	0.05	0.10	
	BLM31PG391SN1B						
	BLM31PG601SN1L	600±25%	1500 ^{*1}	1000 ^{*1}	0.08	0.16	
	BLM31PG601SN1B						
	BLM31BE601SN1L	400 min. (Typ.600)	200		0.9	1.0	*
	BLM31BE601SN1B						
	BLM31BE601FN1L	600±25%	300		0.35	0.45	*
	BLM31BE601FN1B						
	BLM31AJ260SN1L	26±25%	500		0.05	0.1	*
	BLM31AJ260SN1B						
	BLM31AF700SN1L	70±25%	200		0.15	0.25	*
	BLM31AF700SN1B						
	BLM31AJ601SN1L	600±25%	200		0.9	1.0	*
	BLM31AJ601SN1B						

* This part can be used only for existing design.
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Reference Only

Spec. No. JENF243A-1246T

«Part Number List»

BLM41- 1/1

BLM41 Series

Customer Part Number	MURATA Part Number	Impedance (Ω) (at 100MHz,Under Standard Testing Condition)	(Note) Rated Current (mA)		DC Resistance (Ω max.)		Remark
			at 85℃	at 125℃	Initial Values	Values After Testing	
	BLM41PG600SN1L	30 min. (Typ.60)	6000 ^{*1}	1000 ^{*1}	0.009	0.018	For DC power line
	BLM41PG600SN1B						
	BLM41PG750SN1L	45 min. (Typ.75)	3500 ^{*1}	1000 ^{*1}	0.015	0.03	
	BLM41PG750SN1B						
	BLM41PG181SN1L	180±25%	3500 ^{*1}	1000 ^{*1}	0.02	0.04	
	BLM41PG181SN1B						
	BLM41PG471SN1L	470±25%	2000 ^{*1}	1000 ^{*1}	0.05	0.10	
	BLM41PG471SN1B						
	BLM41PG102SN1L	1000±25%	1500 ^{*1}	1000 ^{*1}	0.09	0.18	
	BLM41PG102SN1B						
	BLM41PF800SN1L	50 min. (Typ.80)	1000		0.1	0.2	*
	BLM41PF800SN1B						
	BLM41AF800SN1L	80±25%	500		0.1	0.2	*
	BLM41AF800SN1B						
	BLM41AF151SN1L	150±25%	200		0.5	0.6	*
	BLM41AF151SN1B						

* This part can be used only for existing design.
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