P1/11

Chip Ferrite Bead BLM15□□□□□SN1□ REFERENCE SPECIFICATION

1.Scope

This reference specification applies to Chip Ferrite Bead BLM15_SN series.

2.Part Numbering

(ex.) <u>BL</u> <u>M</u> <u>15</u> <u>AG</u> <u>100</u> <u>S</u> <u>N</u> <u>1</u> <u>D</u> (1) (2) (3) (4) (5) (6) (7) (8) (9)

(1)Product ID (2)Type (3)Dimension(LxW) (4)Characteristics (5)Typical Impedance at 100MHz

(6)Performance (7)Category (8)Numbers of Circuit (9)Packaging(D:Taping / B:Bulk)

_	_	_			
3.	R	at	ı	n	1
v.		u			ч

.Rating	_	1	٦) ا		505		
		Impedance (Ω) (at 100MHz,Under Standard Testing Condition)			DC Resistance (Ω max.)		
Customer	MURATA			Rated Current	Initial	Values	Remark
Part Number	Part Number			(mA)	Values	After	rtomant
			Typical			Testing	
	BLM15AG100SN1D	5 ~ 15	10	1000	0.025	0.05	
	BLM15AG100SN1B	0 10	10	1000	0.020	0.00	
	BLM15AG700SN1D	40~100	70	600	0.15	0.20	
	BLM15AG700SN1B	10 100	,,,		0.10	0.20	
	BLM15AG121SN1D	120±25%	120	550	0.19	0.29	
	BLM15AG121SN1B	1-1			-		
	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	1000=2070	1000	000	0.00	0.70	
	BLM15AX100SN1D	5 ~ 15	10	1740	0.015	0.025	For
	BLM15AX100SN1B	5.0 15	10	1740	0.015	0.025	general use
	BLM15AX300SN1D	30±25%	30	1100	0.06	0.11	use
	BLM15AX300SN1B	30 ± 23 70	30	1100	0.00	0.11	
	BLM15AX700SN1D	70±25%	70	780	0.10	0.15	
	BLM15AX700SN1B	70=2570	70		3.10	0.10	
	BLM15AX121SN1D	120±25%	120	700	0.13	0.18	
	BLM15AX121SN1B	120 ± 25 70	120	700	0.15	0.10	
	BLM15AX221SN1D	220±25%	220	600	0.18	0.23	
	BLM15AX221SN1B	220 ± 25 70	220	000	0.10	0.20	
	BLM15AX601SN1D	600±25%	600	500	0.34	0.39	
	BLM15AX601SN1B	000 ± 23 /0	000	300	0.54	0.59	
	BLM15AX102SN1D	1000±25%	1000	350	0.49	0.54	
	BLM15AX102SN1B	1000±2570	1000	330	0.43	0.54	
	BLM15BA050SN1D	5±25%	5	300	0.10	0.15	
	BLM15BA050SN1B	J±2J /6	3	300	0.10	0.13	
	BLM15BB050SN1D	5±25%	5	500	0.08	0.15	
	BLM15BB050SN1B	022070			0.00	0.10	
	BLM15BA100SN1D	10±25%	10	300	0.20	0.25	
	BLM15BA100SN1B						For
	BLM15BB100SN1D	10±25%	10	300	0.10	0.15	high speed
	BLM15BB100SN1B				-	-	signal line
	BLM15BA220SN1D BLM15BA220SN1B	22±25%	22	300	0.30	0.35	
	BLM15BB220SN1D						1
	BLM15BB220SN1B	22±25%	22	300	0.20	0.30	
	BLM15BA330SN1D						-
	BLM15BA330SN1B	33±25%	33	300	0.40	0.45	
		1	1		I	I	1

P2/11

Customer	MURATA	Impedance (stat 100MHz,Under State)	Standard	(Note)		sistance max.)	
Part Number Part Number Testing C		Typical	Rated Current (mA)	Initial Values	Values After Testing	Remark	
	BLM15BA470SN1D	47±25%	47	200	0.60	0.65	
	BLM15BA470SN1B		-		-		
	BLM15BB470SN1D	47±25%	47	300	0.35	0.45	
	BLM15BB470SN1B BLM15BA750SN1D						
	BLM15BA750SN1B	75±25%	75	200	0.80	0.85	
	BLM15BB750SN1D						1
	BLM15BB750SN1B	75±25%	75	300	0.40	0.50	
	BLM15BD750SN1D		<u> </u>				
	BLM15BD750SN1B	75±25%	75	300	0.20	0.30	
	BLM15BB121SN1D	400.050/	400	200	0.55	0.05	
	BLM15BB121SN1B	120±25%	120	300	0.55	0.65	
	BLM15BD121SN1D	120±25%	120	300	0.30	0.4	
	BLM15BD121SN1B	12012370	120	300	0.50	0.4	
	BLM15BC121SN1D	120±25%	120	350	0.45	0.50	
	BLM15BC121SN1B						
	BLM15BB221SN1D	220±25%	220	200	0.80	0.90	
	BLM15BB221SN1B BLM15BD221SN1D						
	BLM15BD221SN1B	220±25%	220	300	0.40	0.50	
	BLM15BC241SN1D						
	BLM15BC241SN1B	240±25%	240	250	0.70	0.75	
	BLM15BD471SN1D						For
	BLM15BD471SN1B	470±25%	470	200	0.60	0.70	high speed
	BLM15BD601SN1D						signal line
	BLM15BD601SN1B	600±25%	600	200	0.65	0.75	
	BLM15BD102SN1D	4000 0=0/		1000 200		4.0	İ
	BLM15BD102SN1B	1000±25%	1000		0.90	1.0	
	BLM15BD152SN1D	4500.050/	4500	400	4.0		
	BLM15BD152SN1B	1500±25%	1500	190	1.0	1.1	
	BLM15BD182SN1D	4000 050/	4000	400		4.5	
	BLM15BD182SN1B	1800±25%	1800	100	1.4	1.5	
	BLM15BX750SN1D	75.050/	75	000	0.45	0.00	1
	BLM15BX750SN1B	75±25%	75	600	0.15	0.20	
	BLM15BX121SN1D	120.259/	120	600	0.17	0.22	
	BLM15BX121SN1B	120±25%	120	600	0.17	0.22	
	BLM15BX221SN1D	220±25%	220	450	0.27	0.32	
	BLM15BX221SN1B	22012370	220	430	0.21	0.02	
	BLM15BX471SN1D	470±25%	470	350	0.41	0.46	
	BLM15BX471SN1B	47 012070	170	000	0.11	0.10	<u> </u>
	BLM15BX601SN1D	600±25%	600	350	0.46	0.51	
	BLM15BX601SN1B		1 - 2 - 2		1		<u> </u>
	BLM15BX102SN1D	1000±25%	1000	300	0.65	0.75	
	BLM15BX102SN1B		+		-		1
	BLM15BX182SN1D	1800±25%	1800	250	0.90	1.0	
	BLM15BX182SN1B						

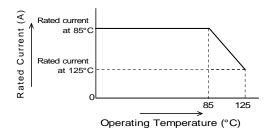
Reference Only

	Impedance (Ω) (at 100MHz,Under Standard				Current	DC Resistance (Ω max.)		
Customer	MURATA	Testing C					Values	Remark
Part Number	Part Number	Č	Typical	,	at 125°C	Values	After Testing	
	BLM15PG100SN1D	5 ~ 15	10	10	00	0.025	0.05	
	BLM15PG100SN1B	0 10	10	10		0.023	0.00	
	BLM15PD300SN1D	30±25%	30	2200*1	1400*1	0.035	0.05	
	BLM15PD300SN1B	3012370	30	2200	1-100	0.000	0.00	
	BLM15PD600SN1D	60±25%	60	1700*1	1100*1	0.06	0.075	
	BLM15PD600SN1B	0012070	- 00	1100	1.00	0.00	0.070	
	BLM15PD800SN1D	80±25%	80	1500*1	1000*1	0.07	0.085	
	BLM15PD800SN1B	0012070	00	1000	1000	0.07	0.000	
	BLM15PD121SN1D BLM15PD121SN1B	120±25%	120	1300*1	900*1	0.09	0.105	
	BLM15PX330SN1D	22 250/	00	0000*1	4700*1	0.000	0.007	
	BLM15PX330SN1B	33±25%	33	3000*1	1700 ^{*1}	0.022	0.037	
	BLM15PX600SN1D	60±050/	00	0500*1	4.400*1	0.000	0.047	
	BLM15PX600SN1B	60±25%	60	2500 ^{*1}	1400 ^{*1}	0.032	0.047	
	BLM15PX800SN1D	80±25%	80	2300*1	1300 ^{*1}	0.038	0.053	
	BLM15PX800SN1B	00±25%	00	2300	1300	0.036	0.055	
	BLM15PX121SN1D	120±25%	120	2000*1	1100 ^{*1}	0.055	0.070	For DC
	BLM15PX121SN1B	120±2570	120	2000	1100	0.055	0.070	power line
	BLM15PX181SN1D	180±25%	180	1500*1	800*1	0.090	0.105	
	BLM15PX181SN1B	100 ± 25 / 0	100 1	1300	000	0.030	0.103	
	BLM15PX221SN1D	220±25%	220	1400 ^{*1}	800 ^{*1}	0.10	0.115	
	BLM15PX221SN1B	220 = 20 70	220	1400	000	0.10	0.110	
	BLM15PX331SN1D	330±25%	330	1200 ^{*1}	700 ^{*1}	0.15	0.165	
	BLM15PX331SN1B	000=2070	000	1200	700	0.10	0.100	
	BLM15PX471SN1D	470±25%	470	1000 ^{*1}	600 ^{*1}	0.20	0.22	
	BLM15PX471SN1B	110=2070	170	1000	000	0.20	0.22	
	BLM15PX601SN1D	600±25%	600	900*1	500 ^{*1}	0.23	0.25	
	BLM15PX601SN1B	000=2070	000	000	000	0.20	0.20	
	BLM15KD200SN1D	20±25%	20	3800 ^{*1}	2350*1	0.011	0.016	
	BLM15KD200SN1B	2022070				0.011	0.0.0	
	BLM15KD300SN1D	30±25%	30	3100*1	1900*1	0.017	0.022	
	BLM15KD300SN1B	0022070				0.5.7	0.522	
	BLM15KD121SN1D	120±25%	120	1500 ^{*1}	930 ^{*1}	0.070	0.085	
	BLM15KD121SN1B	12012070	.20			0.0.0	1 0.000	ĺ

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

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

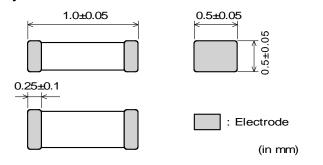
(Note) As for the Rated current marked with *1, Rated Current is derated as right figure depending on the operating temperature.



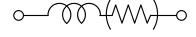
Reference Only

Spec.No.JENF243A-0018AL-01

4. Style and Dimensions



■ Equivalent Circuit



P4/11

Resistance element becomes dominant at high frequencies.

■ Unit Mass(Typical value) 0.001g

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 : KEYSIGHT4291A or the equivalent Test Fixture : KEYSIGHT16192A or the equivalent
7-1-2	DC Resistance	Meet item 3.	Measuring Equipment : Digital multi meter *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 1 Appearance No damage Impedance Change (at 100MHz) DC Resistance Meet item 3.	It shall be soldered on the substrate. Applying Force(F): 5N Applying Time: 5s±1s Applying Direction: Parallel to the substrate. Side view F Substrate
7-2-3	Bending Strength		It shall be soldered on the substrate. Substrate: Glass-epoxy 100mm×40mm×0.8mm Deflection : 2.0mm Speed of Applying Force : 0.5mm/s Keeping Time : 30s Pressure jig R340 Product



No.	Item	Specification	Test Method
7-2-4	Vibration	Meet Table 1.	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		Pre-Heating : 150°C \pm 10°C, 60s \sim 90s
	to Soldering		Solder : Sn-3.0Ag-0.5Cu
	Heat		Solder Temperature : 270°C±5°C
			Immersion Time: 10s±0.5s
			Immersion and emersion rates : 25mm/s
			Then measured after exposure in the room conditionfor 48h±4h.
7-2-6	Drop	Products shall be no failure	It shall be dropped on concrete or steel board.
		after tested.	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	Flux: Ethanol solution of rosin,25(wt)%
		least 95% covered with new	Pre-Heating : 150°C \pm 10°C, 60s \sim 90s
		solder coating.	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

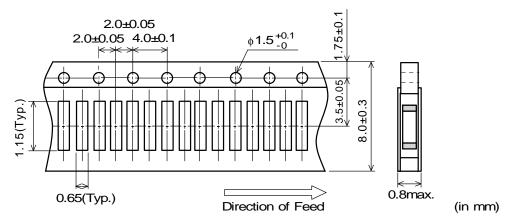
It shall be soldered on the substrate.

		d on the substrate.	
No.	Item	Specification	Test Method
7-3-1	Temperature Cycle	Meet Table 1.	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.
7-3-2	Humidity		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 2. Table 2 Appearance No damage Impedance Within ±30% (for BLM15PD (at 100MHz) Within ±40%) DC Resistance Meet item 3.	Temperature: 125°C±3°C Applying Current: Rated Current(at 125°C) Time: 1000h(+48h,-0h) Then measured after exposure in the room condition for 48h±4h.
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.

P6/11

8. Specification of Packaging

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



(1) Taping

Products shall be packaged in the cavity of the base tape of 8mm-wide, 2mm-pitch continuously and sealed by top tape and bottom tape.

- (2) Sprocket hole: Sprocket hole shall be located on the right hand side toward the direction of feed.
- (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.

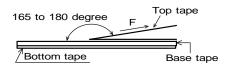
8-2. Tape Strength

(1)Pull Strength

Top tape	5N min
Bottom tape	OIN IIIIII.

(2)Peeling off force of Cover tape

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



8-3. Taping Condition

(1)Standard quantity per reel

Quantity per 180mm reel 10000 pcs. / reel

- (2) There shall be leader-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) (2) (3) (1) Factory Code

(2) Date First digit : Year / Last digit of year

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

Third, Fourth digit: Day

(3) Serial No.

*2) « Expression of RoHS marking » ROHS $-\underline{Y}$ ($\underline{\triangle}$)

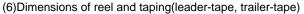
- (1) RoHS regulation conformity parts.
- (2) MURATA classification number

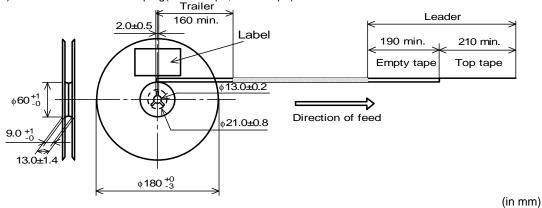
(5)Outside package

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

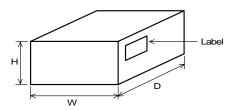
(Customer name, Purchasing order number, Customer part number, MURATA part number, RoHS marking(*2), Quantity, etc)

P7/11





8-4. Specification of Outer Case



Outer Case Dimensions (mm)			Standard Reel Quantity in Outer Case (Reel)
W	D	Н	(Neel)
186	186	93	5

^{*} 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 (2)Aerospace equipment (3)Undersea equipment (4)Power plant control equipment
- (5) Medical equipment (6) Transportation equipment (automobiles, trains, ships, etc.) (7) Traffic signal equipment
- (8)Disaster prevention / crime prevention equipment (9)Data-processing equipment
- (10)Applications of similar complexity or with reliability requirements comparable to the applications listed in the above

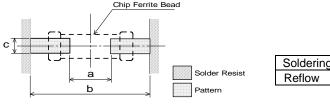
10.Notice

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 (Reflow soldering)
- < For BLM15 series (except BLM15P□, BLM15AX, BLM15KD type) >

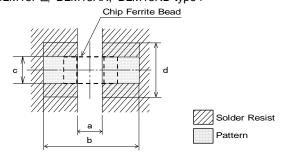


Soldering	а	р	С
Reflow	0.4	1.2	0.5

(in mm)



< For BLM15P□, BLM15AX, BLM15KD type >



Rated Current	а	b	Land pad thickness c and dimension d			
(A)				18µm	35µm	70µm
1.5 Max				0.5	0.5	0.5
2.2 Max	0.4	1.2	0.5	1.2	0.7	0.5
3.0 Max				2.4	1.2	0.5

(in mm

10-2. Soldering Conditions

Products can be applied to reflow 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		

(2) Soldering conditions

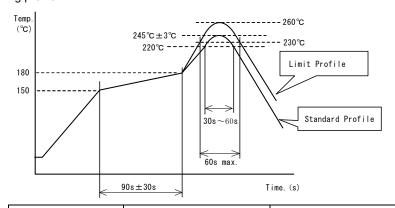
• Pre-heating should be in such a way that the temperature difference between solder and ferrite surface is limited to 150°C max. Also cooling into solvent after soldering should be in such a way that the temperature difference is limited to 100°C max.

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



	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

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

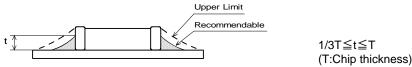
Note :Do not directly touch the products with the tip of the soldering iron in order to prevent the crack on the ferrite material due to the thermal shock.

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



10-4. Solder Volume

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

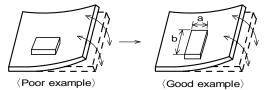


Accordingly increasing the solder volume, the mechanical stress to product is also increased. Exceeding solder volume may cause the failure of mechanical or electrical performance.

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>

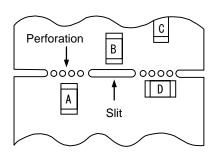


Products shall be located in the sideways direction (Length:a<b) to the mechanical stress.

(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

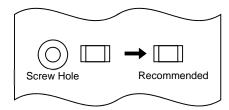


*1 A > D is valid when stress is added vertically to the perforation as with Hand Separation. If a Cutting Disc is used, stress will be diagonal to the PCB, therefore A > D is invalid.

(3) Keep the mounting position of the component away from the board separation surface

(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.

MURATA MFG.CO.,LTD.

P9/11



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 such as acidic gases, alkaline gases, chlorine, sulfur gases, organic gases and etc. (the sea breeze, Cl2, H2S, NH3, SO2, NO2,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

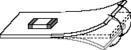
Please contact us.

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.

Bending



Twisting



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 in 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.



211/11

11. <u>M</u> 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 reference 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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Ferrite Beads category:

Click to view products by Murata manufacturer:

Other Similar products are found below:

BLE32PN300SZ1L 2943778301 BMB1J0120BN3JIT 82350120560 0261014605 2643066902 BLM03AX800SZ1D 3061000011 2673045901 2643083601 2643074901 4361142521 4078078621 4078044821 4078033621 CZB2BFTTE121P BMB2A0120AN2 BLM03HD182FZ1D BMB1J0200BN3JIT EMI0805R-220 BLM03BX182SN1D 74279250 7427924 CZB1JGTTD202P BPH403025W4-470T MAF0603GWY551AT000 MAF1005GWZ102AT000 BLM18HE152SH1D 2944778302 BLM02PX100SN1D BLM02PX600SN1D SA1206C101MBNT SMB2.5-1 EMI1806R-80 EMI1806R-150 EMI1206R-600 BLM02KX180SN1D BLM03HG102SH1D BLM02BC100SN1D BLM02KX100SN1D BLM03HG601SH1D BLM02BB101SN1D BLM03PX121SN1D BLM03HG122SH1D BLM02BC220SN1D BLE32PN260SN1L BLE32PN260SN1L BLE32PN260SZ1L 7427501 74275013