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Spec. No. JENF243A-0003AC-01

Chip Ferrite Bead BLM18

1.Scope

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

2.Part Numbering

(ex.) <u>BL</u> <u>M</u> <u>18</u> <u>AG</u> <u>121</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(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 (at 100MH2, Under Standard Testing Condition) Current (mA) Bt (at max) Initial BtS (at max) Part Number Remark BLM18RK121SN1D BLM18RK121SN1D 120±25% 120 200 0.25 0.35 BLM18RK21SN1D 220±25% 220 200 0.30 0.40 BLM18RK221SN1D 220±25% 220 200 0.50 0.60 BLM18RK271SN1B 470±25% 470 200 0.50 0.60 BLM18RK471SN1D 600±25% 600 200 0.60 0.70 BLM18RK102SN1B 1000±25% 1000 200 0.80 0.90 BLM18PG300SN1D 20 min. 30 1000 0.05 0.10 BLM18PG30SN1D 100±25% 120 2000 ⁻¹ 0.025 0.050 BLM18PG30SN1D 100±25% 1000 0.01 0.22 0.050 0.10 BLM18PG30SN1D 120±25% 120 200 ⁻¹ 1000 ⁻¹ 0.05 0.10 0.14	Rating								
Customer Part Number MURA1A Part Number Testing Condition Typical BL BL/M18RK121SN1D Testing Condition Typical BL/M18RK21SN1B Remark Values Values BL/M18RK121SN1D Remark Values Typical BL/M18RK221SN1B Remark Values Values Remark Values BL/M18RK121SN1D 120±25% 120 200 0.25 0.35 BL/M18RK221SN1B 220±25% 220 200 0.30 0.40 BL/M18RK21SN1D 470±25% 470 200 0.50 0.60 BL/M18RK01SN1B 600±25% 600 200 0.60 0.70 BL/M18RK102SN1D 1000±25% 1000 200 0.80 0.90 BL/M18RK102SN1B 1000±25% 1000 2.00 0.50 0.10 BL/M18RK102SN1B 1000±25% 1000 0.05 0.10 BL/M18PG30SN1D 33±25% 33 3000*1 1000*1 0.90 0.18 BL/M18PG31SN1D 180±25% 120 2000*1 1000*1 0.10 0.14 BL/M18PG31SN1D 120±25% 220 1400*1 1000 0.20 <td></td> <td></td> <td colspan="2">Impedance (Ω)</td> <td colspan="2"></td> <td colspan="2"></td> <td></td>			Impedance (Ω)						
Part Number Part Number Testing Conduction (mA) Typical (mA) tables values values values values values values values v	Customer	MURATA							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			l esting C	ondition)	· · · ·	'			Remark
BLM18RK121SN1D 120±25% 120 200 0.25 0.35 BLM18RK121SN1B 120±25% 220 200 0.30 0.40 BLM18RK221SN1D 20±25% 220 200 0.30 0.40 BLM18RK471SN1D 470±25% 470 200 0.50 0.60 BLM18RK401SN1D 600±25% 600 200 0.60 0.70 BLM18RK601SN1D 600±25% 1000 200 0.60 0.70 BLM18RK601SN1D 1000±26% 1000 200 0.80 0.90 BLM18PG300SN1D 20 min. 30 1000* 0.05 0.10 BLM18PG30SN1D 20 min. 60 1000* 0.1 0.2 BLM18PG30SN1B 3±25% 33 3000* 1000* 0.1 0.2 BLM18PG30SN1B 120±25% 120 2000* 1000* 0.10 0.14 BLM18PG31SN1D 180±25% 180 1500* 1000* 0.10 0.14 BLM18PG31S						at at			
BLM18RK121SN1B 120225% 120 200 0.25 0.35 BLM18RK221SN1D 220±25% 220 200 0.30 0.40 BLM18RK21SN1D 220±25% 220 200 0.50 0.60 Digital BLM18RK471SN1D 470±25% 470 200 0.50 0.60 Digital BLM18RK601SN1D 600±25% 600 200 0.60 0.70 BLM18RK102SN1D 1000±25% 1000 200 0.80 0.90 BLM18RK03SN1D 20 min. 30 1000* 0.05 0.10 BLM18PG30SN1D 20 min. 33 3000* 1000* 0.05 0.10 BLM18PG30SN1D 33±25% 33 3000* 1000* 0.05 0.10 BLM18PG60SN1B 120±25% 120 200* 1000* 0.05 0.10 BLM18PG121SN1D 120±25% 120 200* 1000* 0.10 0.14 BLM18PG331SN1B 30±25% 330 120* <td< td=""><td></td><td></td><td></td><td></td><td>85°C 12</td><td>25°C</td><td></td><td>resung</td><td></td></td<>					85°C 12	25°C		resung	
BLM18HR212ISN1B 220±25% 220 200 0.30 0.40 BLM18RK22ISN1B 220±25% 220 200 0.50 0.60 BLM18RK47ISN1D 470±25% 470 200 0.50 0.60 Digital Interface BLM18RK601SN1D 600±25% 600 200 0.60 0.70 BLM18RK601SN1D 600±25% 1000 200 0.60 0.70 BLM18RK601SN1D 1000±25% 1000 200 0.60 0.70 BLM18RK02SN1D 1000±25% 1000 200 0.60 0.70 BLM18PG300SN1B 20 min. 30 1000* 0.05 0.10 BLM18PG300SN1B 33±25% 33 3000* 1000* 0.025 0.050 BLM18PG181SN1D 120±25% 120 200* 1000* 0.01 0.14 BLM18PG212ISN1B 120±25% 120 200* 1000* 0.10 0.14 BLM18PG33ISN1B 30±25% 330 120* 0.055 0.1			120+25%	120	200		0.25	0.35	
BLM18RK221SN1B 220±25% 220 200 0.30 0.40 BLM18RK471SN1D 470±25% 470 200 0.50 0.60 Digital Interface BLM18RK601SN1D 600±25% 600 200 0.60 0.70 BLM18RK601SN1D 600±25% 600 200 0.60 0.70 BLM18RK601SN1D 1000±25% 1000 200 0.80 0.90 BLM18RK6033N1D 1000±25% 1000 200 0.80 0.90 BLM18PG300SN1B 20 min. 30 1000* 0.05 0.10 BLM18PG300SN1B 33±25% 33 3000*1 1000*1 0.025 0.050 BLM18PG330SN1D 10±25% 120 200*1 1000*1 0.05 0.10 BLM18PG181SN1D 180±25% 180 1500*1 1000*1 0.10 0.14 BLM18PG331SN1B 30±25% 330 120*1 1000*1 0.10 0.14 BLM18PG331SN1B 30±25% 330 120*1					200		0.20	0.00	
BLM18Rk221SN1B For BLM18Rk471SN1D 470±25% 470 200 0.50 0.60 Digital BLM18Rk601SN1D 600±25% 600 200 0.60 0.70 BLM18Rk601SN1D 600±25% 600 200 0.60 0.70 BLM18Rk601SN1D 1000±25% 1000 200 0.80 0.90 BLM18RK102SN1D 1000±25% 1000 200 0.80 0.90 BLM18PG300SN1D 20 min. 30 1000* 0.05 0.10 BLM18PG300SN1B 20 min. 30 1000* 0.05 0.10 BLM18PG300SN1B 33±25% 33 3000** 1000** 0.025 0.050 BLM18PG30SN1B 120±25% 120 2000** 1000** 0.05 0.10 BLM18PG121SN1D 120±25% 180 1500** 1000** 0.10 0.14 BLM18PG121SN1B 180±25% 180 1500** 1000** 0.10 0.14 BLM18PG31SN1B <td< td=""><td></td><td>BLM18RK221SN1D</td><td>220+25%</td><td>220</td><td>200</td><td>)</td><td>0.30</td><td>0.40</td><td></td></td<>		BLM18RK221SN1D	220+25%	220	200)	0.30	0.40	
BLM18Rk471SNHB 470±25% 470 200 0.50 0.60 Digital Interface BLM18Rk701SNHD 600±25% 600 200 0.60 0.70 BLM18Rk601SNHD 600±25% 1000 200 0.60 0.70 BLM18Rk102SNHD 1000±25% 1000 200 0.80 0.90 BLM18Rk102SNHD 20 min. 30 1000 0.05 0.10 BLM18PG300SNHD 20 min. 30 1000* 0.025 0.050 BLM18PG300SNHD 33±25% 33 3000*1 1000*1 0.025 0.050 BLM18PG600SNHB 40 min. 60 1000 0.1 0.2 0.50 0.10 BLM18PG121SNHD 120±25% 120 2000*1 1000*1 0.05 0.10 BLM18PG131SNHD 180±25% 180 1500*1 1000*1 0.14 0.14 BLM18PG21SNHD 20±25% 220 1400*1 0.10 0.14 BLM18PG331SNHB 330±25% 330 <t< td=""><td></td><td></td><td>22012070</td><td>220</td><td>200</td><td>,</td><td>0.50</td><td>0.40</td><td>For</td></t<>			22012070	220	200	,	0.50	0.40	For
BLMIBRK47ISMIB Interface BLMIBRK601SN1D 600±25% 600 200 0.60 0.70 BLM18RK102SN1D 1000±25% 1000 200 0.80 0.90 BLM18RK102SN1D 1000±25% 1000 200 0.80 0.90 BLM18PG300SN1D 20 min. 30 1000 0.05 0.10 BLM18PG300SN1B 20 min. 30 1000* 0.055 0.50 BLM18PG300SN1B 40 min. 60 1000* 0.10 0.22 BLM18PG30SN1B 40 min. 60 1000* 0.10 0.10 BLM18PG121SN1D 120±25% 120 2000* ¹ 1000* ¹ 0.09 0.18 BLM18PG121SN1D 120±25% 180 1500* ¹ 1000* ¹ 0.10 0.14 BLM18PG221SN1D 220±25% 220 1400* ¹ 1000* ¹ 0.15 0.20 BLM18PG31SN1D 30±25% 330 1200* ¹ 0.080 0.095 BLM18FG31SN1D 220±25% 22		BLM18RK471SN1D	470+25%	470	200)	0.50	0.60	
BLM18RK601SN1D 600±25% 600 200 0.60 0.70 BLM18RK102SN1D 1000±25% 1000 200 0.80 0.90 BLM18RK102SN1D 1000±25% 1000 200 0.80 0.90 BLM18PG300SN1D 20 min. 30 1000 ⁻¹ 0.05 0.10 BLM18PG300SN1D 20 min. 30 1000 ⁻¹ 0.025 0.050 BLM18PG300SN1D 33±25% 33 3000 ⁻¹ 1000 ⁻¹ 0.25 0.050 BLM18PG300SN1B 33±25% 120 2000 ⁻¹ 1000 ⁻¹ 0.25 0.050 BLM18PG415N1D 120±25% 120 2000 ⁻¹ 1000 ⁻¹ 0.05 0.10 BLM18PG415N1D 180±25% 180 1500 ⁻¹ 1000 ⁻¹ 0.15 0.20 BLM18PG315N1D 220±25% 220 1400 ⁺¹ 1000 ⁺¹ 0.16 power line BLM18PG315N1D 330±25% 330 1200 ⁺¹ 0.050 0.060 BLM18FG331SN1D 330±25% 330 <td></td> <td></td> <td>470±2070</td> <td>770</td> <td>200</td> <td>,</td> <td>0.50</td> <td>0.00</td> <td></td>			470±2070	770	200	,	0.50	0.00	
BLM18RK01SN1B 0			600+25%	600	200	`	0.60	0.70	interface
BLM18RK102SN1B 1000±25% 1000 200 0.80 0.90 BLM18PG300SN1D 20 min. 30 1000 0.05 0.10 BLM18PG300SN1B 20 min. 30 1000 0.05 0.10 BLM18PG300SN1B 33±25% 33 300 ¹¹ 1000 ¹¹ 0.025 0.050 BLM18PG300SN1B 40 min. 60 1000 0.1 0.2 0.05 0.10 BLM18PG30SN1B 40 min. 60 1000 0.1 0.2 0.05 0.10 BLM18PG121SN1B 120±25% 120 200 ¹¹ 1000 ⁴¹ 0.05 0.10 BLM18PG121SN1B 180±25% 180 1500 ¹¹ 1000 ⁴¹ 0.09 0.18 BLM18PG31SN1B 330±25% 330 120 ¹¹ 1000 ⁴¹ 0.10 0.14 BLM18PG31SN1B 220±25% 220 1400 ⁴¹ 1000 ⁴¹ 0.150 0.20 BLM18PG321SN1B 330±25% 330 120 ⁴¹ 0.050 0.060 <td< td=""><td></td><td>BLM18RK601SN1B</td><td>00012370</td><td>000</td><td>200</td><td>,</td><td>0.00</td><td>0.70</td><td></td></td<>		BLM18RK601SN1B	00012370	000	200	,	0.00	0.70	
BLM18RK102SN1B 20 min. 30 1000 0.05 0.10 BLM18PG300SN1D 20 min. 30 1000 0.05 0.10 BLM18PG300SN1D 33±25% 33 3000*1 1000*1 0.025 0.050 BLM18PG300SN1D 40 min. 60 1000 0.1 0.2 BLM18PG600SN1D 40 min. 60 1000*1 0.05 0.10 BLM18PG600SN1D 40 min. 60 1000*1 0.05 0.10 BLM18PG121SN1D 120±25% 120 200*1 100*1 0.05 0.10 BLM18PG181SN1D 180±25% 180 150*1 100*1 0.09 0.18 BLM18PG21SN1D 20±25% 220 1400*1 100*1 0.10 0.14 BLM18PG31SN1D 30±25% 330 120*1 100*1 0.15 0.20 BLM18PG21SN1D 20±25% 220 220*1 150*1 0.080 0.95 BLM18RG31SN1D 30±25% 330 170*1		BLM18RK102SN1D	1000+25%	1000	200	`	0.80	0.00	
BLM18PG300SN1B 20 min. 30 1000 0.05 0.10 BLM18PG300SN1D 33±25% 33 3000 ⁺¹ 1000 ⁺¹ 0.025 0.050 BLM18PG300SN1D 40 min. 60 1000 0.1 0.2 BLM18PG600SN1D 40 min. 60 1000 ⁺¹ 0.05 0.10 BLM18PG121SN1D 120±25% 120 2000 ⁺¹ 1000 ⁺¹ 0.05 0.10 BLM18PG121SN1D 120±25% 120 2000 ⁺¹ 1000 ⁺¹ 0.05 0.10 BLM18PG121SN1D 180±25% 180 1500 ⁺¹ 1000 ⁺¹ 0.10 0.14 BLM18PG21SN1D 220±25% 220 1400 ⁺¹ 1000 ⁺¹ 0.10 0.14 BLM18PG331SN1D 330±25% 330 1200 ⁺¹ 0.050 0.60 BLM18KG331SN1D 220±25% 220 2200 ⁺¹ 1500 ⁺¹ 0.050 0.600 BLM18KG331SN1D 330±25% 330 1700 ⁺¹ 1000 ⁺¹ 0.150 0.145 BLM18KG331SN1		BLM18RK102SN1B	1000±2376	1000	200	,	0.00	0.90	
BLM18PG300SN1B 33±25% 33 3000 ⁻¹ 1000 ⁻¹ 0.025 0.050 BLM18PG30SN1D 33±25% 33 3000 ⁻¹ 1000 ⁻¹ 0.025 0.050 BLM18PG30SN1D 40 min. 60 1000 ⁻¹ 0.025 0.050 BLM18PG121SN1D 120±25% 120 2000 ⁻¹ 1000 ⁻¹ 0.05 0.10 BLM18PG121SN1D 120±25% 120 2000 ⁻¹ 1000 ⁻¹ 0.09 0.18 BLM18PG121SN1D 180±25% 180 1500 ⁻¹ 1000 ⁻¹ 0.10 0.14 BLM18PG31SN1D 220±25% 220 1400 ⁺¹ 1000 ⁺¹ 0.15 0.20 BLM18PG331SN1D 330±25% 330 1200 ⁺¹ 1000 ⁺¹ 0.15 0.20 BLM18PG471SN1D 470±25% 470 1000 ⁺¹ 0.050 0.060 BLM18KG221SN1B 330±25% 330 1700 ⁺¹ 1000 ⁺¹ 0.130 0.145 BLM18KG471SN1D 470±25% 470 1500 ⁺¹ 0.080 0.095		BLM18PG300SN1D	00 i		4000	•	0.05	0.40	
BLM18PG330SN1B 33±25% 33 3000 ⁻¹ 100 ⁻¹⁰ 0.025 0.050 BLM18PG600SN1D 40 min. 60 1000 ⁻¹¹ 0.2 0.1 0.2 BLM18PG600SN1B 40 min. 60 1000 ⁺¹ 0.05 0.10 BLM18PG121SN1D 120±25% 120 2000 ⁺¹ 1000 ⁺¹ 0.09 0.18 BLM18PG181SN1B 180±25% 180 1500 ⁺¹ 1000 ⁺¹ 0.09 0.14 BLM18PG181SN1B 180±25% 180 1500 ⁺¹ 1000 ⁺¹ 0.10 0.14 BLM18PG181SN1D 330±25% 330 1200 ⁺¹ 1000 ⁺¹ 0.15 0.20 BLM18PG331SN1D 330±25% 330 1200 ⁺¹ 1000 ⁺¹ 0.15 0.20 BLM18PG331SN1D 330±25% 220 220 ⁺¹ 1500 ⁺¹ 0.050 0.060 BLM18KG331SN1D 330±25% 330 1700 ⁺¹ 1200 ⁺¹ 0.080 0.095 BLM18KG331SN1D 330±25% 330 1700 ⁺¹ 0.000 ⁺¹		BLM18PG300SN1B	20 min.	30	1000	0	0.05	0.10	
BLM18PG330SN1B 40 min. 60 1000 0.1 0.2 BLM18PG600SN1B 40 min. 60 1000 0.1 0.2 BLM18PG121SN1D 120±25% 120 2000*1 1000*1 0.05 0.10 BLM18PG181SN1D 120±25% 120 2000*1 1000*1 0.09 0.18 BLM18PG181SN1D 180±25% 180 150*1 1000*1 0.10 0.14 BLM18PG181SN1D 180±25% 220 1400*1 1000*1 0.10 0.14 BLM18PG331SN1D 220±25% 220 1400*1 0.00*1 0.15 0.20 BLM18PG331SN1D 330±25% 330 1200*1 1000*1 0.15 0.20 BLM18PG471SN1D 470±25% 470 1000*1 0.050 0.060 BLM18KG31SN1D 330±25% 330 170*1 120*1 0.080 0.095 BLM18KG31SN1D 330±25% 330 170*1 120*1 0.080 0.095 BLM18KG601SN1D		BLM18PG330SN1D	00.050/	00	2000*1 4	4000*1	0.005	0.050	
BLM18PG600SN1B 40 min. 60 1000 0.1 0.2 BLM18PG121SN1D 120±25% 120 2000*1 1000*1 0.05 0.10 BLM18PG121SN1D 120±25% 120 2000*1 1000*1 0.05 0.10 BLM18PG181SN1D 180±25% 180 1500*1 1000*1 0.09 0.18 BLM18PG181SN1D 180±25% 220 1400*1 1000*1 0.10 0.14 BLM18PG21SN1D 220±25% 220 1400*1 1000*1 0.15 0.20 BLM18PG331SN1D 330±25% 330 1200*1 1000*1 0.15 0.20 BLM18PG471SN1B 470±25% 470 1000 0.20 0.26 power line BLM18KG21SN1D 220±25% 220 2200*1 1500*1 0.050 0.060 BLM18KG331SN1D 330±25% 330 170*1 120*1 0.080 0.95 BLM18KG471SN1B 470±25% 470 1500*1 0.060 0.145		BLM18PG330SN1B	33±25%	33	300011	000	0.025	0.050	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		BLM18PG600SN1D	10 min		4000	•		0.2	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		BLM18PG600SN1B	40 min.	60	1000	0	0.1		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		BLM18PG121SN1D	400.050/	400	0000*1 4	1000*1	0.01	0.40	
BLM18PG181SN1D 180±25% 180 1500*1 1000*1 0.09 0.18 BLM18PG181SN1B 220±25% 220 1400*1 1000*1 0.10 0.14 BLM18PG221SN1D 220±25% 220 1400*1 1000*1 0.10 0.14 BLM18PG231SN1D 330±25% 330 120*1 1000*1 0.15 0.20 BLM18PG331SN1B 330±25% 330 120*1 1000*1 0.15 0.20 BLM18PG331SN1B 470±25% 470 1000 0.20 0.26 power line BLM18PG471SN1D 470±25% 470 1000*1 0.050 0.060 BLM18KG221SN1B 220±25% 220 220*1 1500*1 0.080 0.095 BLM18KG331SN1D 330±25% 330 170*1 120*1 0.080 0.095 BLM18KG31SN1D 330±25% 470 1500*1 0.160 0.145 BLM18KG31SN1B 600±25% 600 130*1 0.150 0.165 BLM18KG102SN		BLM18PG121SN1B	120±25%	120	2000.1	000	0.05	0.10	
BLM18PG181SN1B 20 20 1400*1 1000*1 0.10 0.14 BLM18PG221SN1B 220±25% 220 1400*1 1000*1 0.10 0.14 BLM18PG221SN1B 330±25% 330 1200*1 1000*1 0.15 0.20 BLM18PG331SN1D 330±25% 470 1000 0.15 0.20 0.26 BLM18PG471SN1D 470±25% 470 1000*1 0.050 0.060 BLM18KG221SN1D 220±25% 220 220*1 1500*1 0.050 0.060 BLM18KG221SN1B 220±25% 220 220*1 1500*1 0.050 0.060 BLM18KG221SN1B 330±25% 330 170*1 120*1 0.080 0.095 BLM18KG331SN1D 330±25% 330 1700*1 1000*1 0.145 5 BLM18KG601SN1D 600±25% 600 1300*1 0.00*1 0.165 6 BLM18KG102SN1D 1000±25% 1000 1000*1 800*1 0.200 0.230 </td <td></td> <td></td> <td>400.050/</td> <td>400</td> <td>4 5 0 0 *1 4</td> <td>000*1</td> <td>0.00</td> <td>0.40</td> <td></td>			400.050/	400	4 5 0 0 *1 4	000*1	0.00	0.40	
BLM18PG221SN1B 220±25% 220 1400*1 1000*1 0.10 0.14 BLM18PG331SN1D 330±25% 330 1200*1 1000*1 0.15 0.20 BLM18PG331SN1B 330±25% 470 1000*1 0.15 0.20 0.26 BLM18PG471SN1D 470±25% 470 1000 0.20 0.26 For DC power line BLM18KG221SN1D 220±25% 220 220*1 1500*1 0.050 0.060 BLM18KG231SN1D 330±25% 330 170*1 1200*1 0.080 0.095 BLM18KG331SN1D 330±25% 330 170*1 1000*1 0.130 0.145 BLM18KG331SN1D 330±25% 470 150*1 0.080 0.095 BLM18KG601SN1B 600±25% 600 1300*1 0.130 0.145 BLM18KG102SN1D 1000±25% 1000 100*1 0.150 0.165 BLM18KG102SN1D 1000±25% 1000 100*1 0.200 0.230 BLM18SD220SN1D		BLM18PG181SN1B	180±25%	180	1500 1	000	0.09	0.18	
BLM18PG221SN1B 330±25% 330 120*1 1000*1 0.15 0.20 BLM18PG331SN1D 330±25% 330 1200*1 1000*1 0.15 0.20 BLM18PG331SN1D 470±25% 470 1000*1 0.15 0.20 0.26 BLM18PG471SN1D 470±25% 470 1000*1 0.050 0.060 BLM18KG21SN1D 220±25% 220 2200*1 1500*1 0.050 0.060 BLM18KG21SN1D 220±25% 330 1700*1 1200*1 0.080 0.095 BLM18KG31SN1D 330±25% 330 1700*1 1000*1 0.130 0.145 BLM18KG31SN1D 330±25% 470 1500*1 0.080 0.095 BLM18KG31SN1D 470±25% 470 1500*1 0.130 0.145 BLM18KG601SN1D 600±25% 600 1300*1 0.150 0.165 BLM18KG102SN1B 1000±25% 1000 1000*1 800*1 0.200 0.230 BLM18SD220SN1B <td< td=""><td></td><td></td><td>000.05%</td><td>000</td><td>4 400*1 4</td><td>000*1</td><td>0.40</td><td>0.4.4</td><td></td></td<>			000.05%	000	4 400*1 4	000*1	0.40	0.4.4	
BLM18PG331SN1B 330±25% 330 1200* 1000* 0.15 0.20 BLM18PG471SN1D 470±25% 470 1000 0.20 0.26 For DC power line BLM18PG471SN1D 220±25% 220 2200*1 1500*1 0.050 0.060 BLM18KG221SN1D 220±25% 220 2200*1 1500*1 0.050 0.060 BLM18KG231SN1D 330±25% 330 1700*1 1200*1 0.080 0.095 BLM18KG331SN1D 330±25% 330 1700*1 1000*1 0.130 0.145 BLM18KG331SN1B 330±25% 470 1500*1 0.080 0.095 BLM18KG471SN1D 470±25% 470 1500*1 0.130 0.145 BLM18KG601SN1D 600±25% 600 1300*1 0.150 0.165 BLM18KG102SN1D 1000±25% 1000 100*1 0.008 0.013 BLM18SD220SN1B 22±25% 22 6000*1 350*1 0.008 0.013		BLM18PG221SN1B	220±25%	220	1400 1	000	0.10	0.14	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		BLM18PG331SN1D	220.050/	220	1000*1 4	000*1	0.45	0.00	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		BLM18PG331SN1B	330±25%	330	1200 1	000	0.15	0.20	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		BLM18PG471SN1D	470.050/	470	4000	0	0.00	0.00	For DC
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		BLM18PG471SN1B	470±25%	470	1000	0	0.20	0.26	power line
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		BLM18KG221SN1D		220	2200*1 4	E00*1	0.050	0.000	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		BLM18KG221SN1B	220±23%	220	2200 1	500	0.050	0.060	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		BLM18KG331SN1D	220 ± 2504	220	1700*1 1	200*1	0.090	0.005	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		BLM18KG331SN1B	330-23%	330	1700 1	200	0.060	0.095	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		BLM18KG471SN1D	$470 \pm 25\%$	470	1500*1 10	000*1	0 130	0 1/15	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$			470±23%	470	1300 1	000	0.130	0.145	
BLM18KG601SN1B 1000±25% 1000 1000 ^{*1} 800 ^{*1} 0.200 0.230 BLM18KG102SN1B 1000±25% 1000 1000 ^{*1} 800 ^{*1} 0.200 0.230 BLM18KG102SN1B 22±25% 22 6000 ^{*1} 3500 ^{*1} 0.008 0.013 BLM18SD220SN1B 22±25% 22 6000 ^{*1} 3500 ^{*1} 0.008 0.013			$600 \pm 25\%$	600	1300*1 1	000*1	0 150	0 165	
BLM18KG102SN1B 1000±25% 1000 1000 800 ⁺¹ 0.200 0.230 BLM18SD220SN1D 22±25% 22 6000 ⁺¹ 3500 ⁺¹ 0.008 0.013 BLM18SG330SN1D BLM18SG330SN1D 0.008 0.013 0.013 0.013		BLM18KG601SN1B	000-2070	000	1000 1	000	0.150	0.105	
BLM18KG102SN1B 22±25% 22 6000*1 3500*1 0.008 0.013 BLM18SD220SN1B 22±25% 22 6000*1 3500*1 0.008 0.013		BLM18KG102SN1D	1000+250%	1000	1000*1 9	200*1	0 200	0.220	
BLM18SD220SN1B 22±25% 22 6000 3500 0.008 0.013		BLM18KG102SN1B	1000±23%0	1000	1000 8	500	0.200	0.230	
BLM18SD220SN1B BLM18SG330SN1D		BLM18SD220SN1D	22,250/		C000*1 0/	F 0.0*1	0.000	0.040	
BLM18SG330SN1D		BLM18SD220SN1B	22±25%	22	0000 38	500 '	0.008	0.013	
			00.070/		0000*4	500 *1	0.000	0.010	
BLM18SG330SN1B 33±25% 33 6000*1 3500*1 0.008 0.013			33±25%	33	6000 38	500~1	0.008	0.013	

ec. No. JENF	243A-0003AC-01	Impodence (O	\ \	Rated		alatanaa	P.2/12
Customer Part Number	MURATA Part Number	Impedance (Ω (at 100MHz, Under Sta Testing C	andard	dard Current dition) (mA)		DC Resistance (Ω max.) Initial Values	
			Typical	at at 85°C 125°C	Values	After Testing	
	BLM18AG121SN1D	120±25%	120	800	0.18	0.28	
	BLM18AG121SN1B BLM18AG151SN1D						
	BLM18AG151SN1D	150±25%	150	700	0.25	0.35	
	BLM18AG221SN1D		000	700	0.05	0.05	
	BLM18AG221SN1B	220±25%	220	700	0.25	0.35	For
	BLM18AG331SN1D	330±25%	330	600	0.30	0.40	general
	BLM18AG331SN1B	00012070	000	000	0.00	0.10	use
	BLM18AG471SN1D	470±25%	470	550	0.35	0.45	
	BLM18AG471SN1B BLM18AG601SN1D						
	BLM18AG601SN1B	600±25%	600	500	0.38	0.48	
	BLM18AG102SN1D						
	BLM18AG102SN1B	1000±25%	1000	450	0.50	0.60	
	BLM18BB050SN1D	E : 259/	5	800	0.05	0.10	
	BLM18BB050SN1B	5±25%	Э	800	0.05	0.10	
	BLM18BA050SN1D	5±25%	5	500	0.2	0.3	
	BLM18BA050SN1B	00	Ű		0.2		
	BLM18BB100SN1D	10±25%	10	700	0.10	0.20	
	BLM18BB100SN1B BLM18BA100SN1D		-				
	BLM18BA100SN1B	10±25%	10	500	0.25	0.35	
	BLM18BB220SN1D				0.20		
	BLM18BB220SN1B	22±25%	22	22 700		0.30	
	BLM18BA220SN1D	00.05%		500	0.05	0.45	
	BLM18BA220SN1B	22±25%	22	500	0.35	0.45	
	BLM18BB470SN1D	47±25%	47	600	0.25	0.35	
	BLM18BB470SN1B				0.20	0.00	
	BLM18BD470SN1D	47±25%	47	500	0.3	0.4	
	BLM18BD470SN1B BLM18BA470SN1D				+		
	BLM18BA470SN1B	47±25%	47	300	0.55	0.65	
	BLM18BB600SN1D						
	BLM18BB600SN1B	60±25%	60	600	0.25	0.35	For
	BLM18BA750SN1D	75+25%	75	200	0.70	0.80	high spe signal lin
	BLM18BA750SN1B	75±25%	75	300	0.70	0.80	Signal III
	BLM18BB750SN1D	75±25%	75	600	0.30	0.40	
	BLM18BB750SN1B						
	BLM18BB121SN1D BLM18BB121SN1B	120±25%	120	550	0.30	0.40	
	BLM18BD121SN1B				+		
	BLM18BD121SN1B	120±25%	120	300	0.4	0.5	
	BLM18BA121SN1D						
	BLM18BA121SN1B	120±25%	120	200	0.9	1.0	
	BLM18BB141SN1D	140±25%	140	500	0.35	0.45	
	BLM18BB141SN1B	140±20%	140	500	0.35	0.40	
	BLM18BB151SN1D	150±25%	150	450	0.37	0.47	
	BLM18BB151SN1B						
	BLM18BD151SN1D BLM18BD151SN1B	150±25%	150	300	0.4	0.5	
	BLM18BD151SN1B						
	BLM18BB221SN1B	220±25%	220	450	0.45	0.55	
	BLM18BD221SN1D	000.050/	000	050	0.15	0.55	
	BLM18BD221SN1B	220±25%	220	250	0.45	0.55	

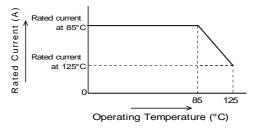


		Impedance (Ω) (at 100MHz, Under Standard			Rated		sistance		
Customer	MURATA	Testing Conditi		Current (mA)		Initial	nax.) Values	Domork	
Part Number	Part Number	resurg or			,	Values	After	Remark	
			Typical	at 85°C	at 125°C	values	Testing		
	BLM18BB331SN1D	330±25%	330	4	00	0.58	0.68		
	BLM18BB331SN1B BLM18BD331SN1D								
	BLM18BD331SN1B	330±25%	330	2	50	0.5	0.6		
	BLM18BD421SN1D	400.059/	420	2	50	0.55	0.65		
	BLM18BD421SN1B	420±25%	420	2	50	0.55	0.65		
	BLM18BB471SN1D	470±25%	470	3	00	0.85	0.95		
	BLM18BB471SN1B	47012070	470	J	00	0.00	0.00		
	BLM18BD471SN1D	470±25%	470	2	50	0.55	0.65		
	BLM18BD471SN1B					0.00	0.00	For	
	BLM18BD601SN1D	600±25%	600	2	00	0.65	0.75	high speed	
	BLM18BD601SN1B							signal line	
	BLM18BD102SN1D BLM18BD102SN1B	1000±25%	1000	2	00	0.85	0.95		
	BLM18BD102SN1B BLM18BD152SN1D								
	BLM18BD152SN1B	1500±25%	1500	1	50	1.2	1.3		
	BLM18BD182SN1D								
	BLM18BD182SN1B	1800±25%	1800	1	50	1.5	1.6		
	BLM18BD222SN1D								
	BLM18BD222SN1B	2200±25%	2200	150		1.5	1.6		
	BLM18BD252SN1D	0500.05%	0500	450		4.5	4.0		
	BLM18BD252SN1B	2500±25%	2500	150		1.5	1.6		
	BLM18TG121TN1D	120±25%	120	200		0.25	0.3	For general use (Thin type)	
	BLM18TG121TN1B	120±25%	120	200 200 200 100		0.25	0.3		
	BLM18TG221TN1D	220±25%	220			0.3	0.4		
	BLM18TG221TN1B	22012070	220			0.0	0.4		
	BLM18TG601TN1D	600±25%	600			0.45	0.6		
	BLM18TG601TN1B								
	BLM18TG102TN1D	1000±25%	1000			0.6	0.8		
	BLM18TG102TN1B BLM18SG260TN1D								
	BLM18SG260TN1B	26±25%	26	6000*1	1000* ¹	0.007	0.012		
	BLM18SG700TN1D			1					
	BLM18SG700TN1B	70±25%	70	4000*1	1000*1	0.020	0.030		
	BLM18SG121TN1D	$120 \pm 25\%$	120	3000*1	1000* ¹	0.025	0.035		
	BLM18SG121TN1B	120 - 20 /0	120	0000	1000	0.020	0.000		
	BLM18SG221TN1D	220±25%	220	2500*1	1000*1	0.040	0.055		
	BLM18SG221TN1B BLM18SG331TN1D								
	BLM18SG331TN1B	$330 \pm 25\%$	330	1500*1 1000*1 8000*1 5000*1 6000*1 4000*1		0.070	0.085		
	BLM18SN220TN1D	00 7				0.004	0.005	For DC	
	BLM18SN220TN1B	22±7	22			0.004	0.005	power line (Thin type)	
	BLM18KG260TN1D	26±25%	26			0.007	0.012	(TIMI type)	
	BLM18KG260TN1B	20-20/0	20	0000	-000	0.007	0.012		
	BLM18KG300TN1D	30±25%	30	5000*1 3300*1		0.010	0.015		
	BLM18KG300TN1B BLM18KG700TN1D								
	BLM18KG700TN1B	70±25%	70	3500*1	2200*1	0.022	0.032		
	BLM18KG101TN1D	100-1050/	100	2000*1	1000*1	0.000	0.040		
	BLM18KG101TN1B	100±25%	100	3000*1	1900* ¹	0.030	0.040		
	BLM18KG121TN1D	120±25%	120	3000*1	1900* ¹	0.030	0.040		
	BLM18KG121TN1B		120			0.000	0.010		

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

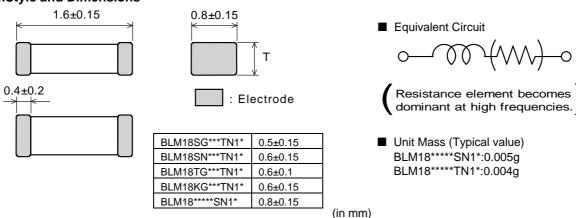
Reference Only

at 85°C (*1)In case of Rated current is more than 1A, Rated Current is derated as right figure Rated current depending on the operating temperature. at 125°C



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4.Style and Dimensions



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

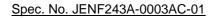
7.Specifications 4 Electrical D

No.	Item	Specification	Specification Test Method					
7-1-1	Impedance	Measuring Equipment : KEYSIGHT 4991A or the equiv 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	Meet item 4.	Visual Inspection and measured with Slide Calipers.			
7-2-2	Dimensions Bonding Strength		R0.5			
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 Pressure jig Keeping Time : 30s R340 F Deflection 45mm 45mm Product			
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 2 Appearance No damage Impedance Change (at 100MHz) Within ±30% (for BLM18K0 Within ±40%) (for BLM18S 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.			
7-2-6	Drop	Products shall be no failur 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 a least 95% covered with ner solder coating.	at Flux : Ethanol solution of rosin,25(wt)%			





7-3. Environmental Performance

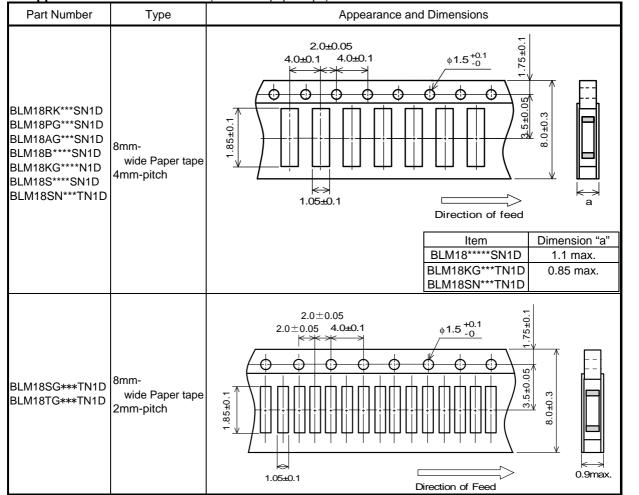
It shall be soldered on the substrate.

No.	Item	Specification	Test Method
7-3-1		Meet Table 3. Table 3 Appearance No damage Impedance Within ±30% (for BLM18KG Within-10%to+ (at 100MHz) (for BLM18SN Within ±50%) (for BLM18SN DC 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.
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.



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 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 0.1% 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

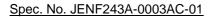
(1)Pull Strength

an oa ongan	
Top tape	ENI main
Bottom tape	5N min.

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

165 to 180 degree	Top tape
Bottom tape	Base tape

(in mm)



Reference Only

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8-3. Taping Condition

(1)Standard quantity per reel

Туре	Quantity per 180mm reel			
BLM18(except BLM18SG/BLM18TG)	4000 pcs. / reel			
BLM18SG/BLM18TG	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) « Expression of Inspection No. » $\square \square OOOO (2) \times \times \times$ (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} ($\underline{\Delta}$) (1) (2)

(1) RoHS regulation conformity parts.

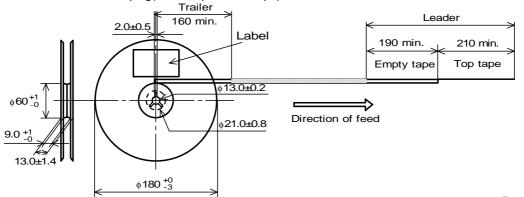
(2) MURATA classification number

(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.

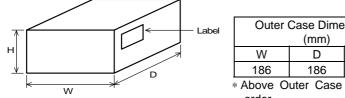
(Customer name, Purchasing order number, Customer part number, MURATA part number, RoHS discrimination(*2), Quantity, etc)

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



(in mm)

8-4. Specification of Outer Case



	Outer	Case Dime (mm)	nsions	Standard Reel Quantity in Outer Case			
	W	D	Н	(Reel)			
	186	186	93	5			
;	Above O order.	uter Case	size is ty	pical. It depends on a quantity of an			



9. \land 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(7) Traffic signal equipment
- (2) Aerospace equipment(3) Undersea equipment
- (8) Transportation equipment (vehicles,trains,ships,etc.)
- (4) Power plant control equipment
- (9) Data-processing equipment
- (10) Applications of similar complexity and /or reliability requirements
 - to the applications listed in the above

10. Notice

This product is designed for solder mounting.

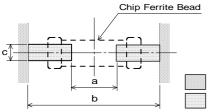
Please consult us in advance for applying other mounting method such as conductive adhesive.

10-1.Land pattern designing

(5) Medical equipment

• Standard land dimensions

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

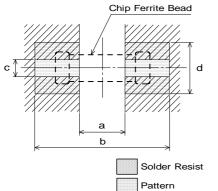


Туре	Soldering	а	b	С	
BLM18 (except18P/18S/	Flow	07	2.2 to 2.6	0.7	
BLM18K type)	Reflow	0.7	1.8 to 2.0	0.7	
Popiet				(in m	

Solder Resist

Pattern

< For BLM18P/BLM18S/BLM18K type >



Туре	Rated Type Current a b o	с	Land pad thickness c and dimension d				
	(A)				18µm	35µm	70µm
	0.5 to 1.5		Flow	0.7	0.7	0.7	0.7
BLM18P BLM18S	1.7 to 2.5		2.2 to 2.6		1.2	0.7	0.7
BLM185 BLM18K	3 to 4	0.7	Reflow 0.7	0.7	2.4	1.2	0.7
DLIVITOR	5 to 6		1.8 to 2.0	1.8 to 2.0	6.4	3.3	1.65
BLM18SN	8	0.7	2.0	0.7	-	6.4	3.3

(in mm)

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*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		

(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.

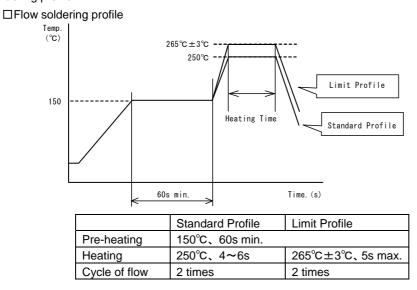
Insufficient pre-heating may cause cracks on the ferrite, resulting in the deterioration of product quality.

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

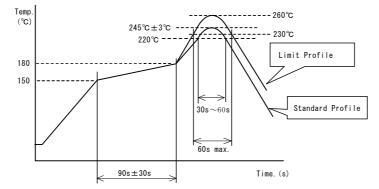
The excessive limit soldering conditions may cause leaching of the electrode and / or resulting in the deterioration of product quality.

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(3)soldering profile



□Reflow soldering profile



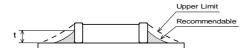
	Standard Profile	Limit Profile	
Pre-heating	150~180°C 、90s±30s		
Heating	above 220°C、30s~60s	above 217°C、60s~150s	
Peak temperature	245±3°C	260°C,10s	
Cycle of reflow	2 times	2 times	

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.

10-4.Solder Volume

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



1/3T≦t≦T (T: Chip thickness)

Reference Only

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.



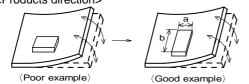
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10-5. Attention regarding P.C.B. bending

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>

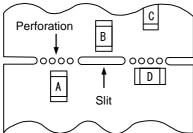


Products shall be located in the sideways direction (Length: a<b) to the mechanical stress.

(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.

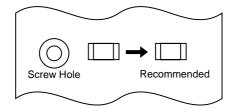
Contents of Measures	Stress Level
(1) Turn the mounting direction of the component parallel to the board separation surface.	A > D*1
(2) Add slits in the board separation part.	A > B
(3) Keep the mounting position of the component away from the board separation surface.	A > C



*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.



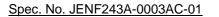
10-6.Mounting density

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.

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.

Reference Only

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 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.

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 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.

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