



# Product Change Notification

Current Date: 13-Apr-2022

## TE Connectivity

**Product Change Notification:** P-22-022505

**PCN Date:** 12-APR-22

**Customer:** Digi-Key Corp.(0001438700)

**Location:** WORLDWIDE

**Agreement:** Agreement Unknown

TE would like to inform you of the following change(s) to the listed TE Connectivity Product. In case of any further questions about this change(s), please contact your TE Connectivity Sales Engineer. Affected part, drawing and/or specification numbers are listed on the attached sheet(s).

**General Product Description:**

Multilayer Ferrite Beads Type BMB series

**Description of Changes**

Discontinuance. Product series End Of Line

**Other attachments:**

[BMB PCN Document](#)

[BMC Datasheet](#)

[Old Datasheet](#)

[Old Datasheet](#)

[Old Datasheet](#)

[Old Datasheet](#)

[Old Datasheet](#)

**Reason for Changes:**

Part status change. Due to circumstances entirely beyond our control, production has been discontinued as a result of low overall production efficiency and synergies to TE strategy. We will endeavour to honour all existing confirmed orders, but new orders can not be accepted and there is no last time buy facility.

**Estimated Dates:**

**Last Order Date** (Obsolete Parts Only):

**First Date To Ship** (Changed Parts Only):

13-APR-2022

**Last Ship Date** (Obsolete Parts Only):

**Last Date for Mixed Shipments:** (Changed Parts Only):

22-JUN-2022

No Mixed Shipments

**Part Number(s) being Modified:**

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">2-1624117-0</a>	YES			"BMB2A1000LN2", "BMB2A1000LN2JIT", "CF3269-000", "PER-2-1624117-0"	2176486-1		DCR = 0.45 RC = 300mA

**Customer:** Digi-Key Corp ( 1306969 )

**Location:** Thief River Falls

**Agreement Number:** Agreement Unknown

**Part Number(s) being Modified:**

Part Number	Part Discontinued per PCN	Customer Drawing	Customer Part Number	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
<a href="#">2-1624117-0</a>	YES			"BMB2A1000LN2", "BMB2A1000LN2JIT", "CF3269-000", "PER-2-1624117-0"	2176486-1		DCR = 0.45 RC = 300mA

## BMB Series Multilayer Ferrite Beads

Due to circumstances entirely beyond our control, production has been discontinued as a result of low overall production efficiency and synergies to TE strategy--A suitable strategic replacement has been enabled in order to continue to support market demand and customer needs. We will endeavour to honour all existing confirmed orders, but new orders can not be accepted and there is no last time buy facility.

Our new BMC series will allow us to achieve the standardisation needed to bring the same production efficiency as we have with other focus product lines. They will cover a wide range of impedance characteristics and will be offered in 0402, 0603, 0805 1204 and 1210 package sizes.

Original Part			Replacement Part		
TCPN	Part Description	Alias	New TCPN	New Description	New Alias
1879855-2	BMB-A 0402 30R N8	BMB1E0030AN8	2176492-2	BMC 0402 30R 25% A Gen C	BMC1EY0030AN
1879855-3	BMB-A 0402 60R N8	BMB1E0060AN8	2176492-4	BMC 0402 60R 25% A Gen C	BMC1EY0060AN
1879855-4	BMB-A 0402 120R N8	BMB1E0120AN8	2176492-9	BMC 0402 120R 25% A Gen C	BMC1EY0120AN
1879855-5	BMB-A 0402 220R N8	BMB1E0220AN8	1-2176492-2	BMC 0402 220R 25% A Gen C	BMC1EY0220AN
1879855-6	BMB-A 0402 300R N8	BMB1E0300AN8	1-2176492-4	BMC 0402 300R 25% A Gen C	BMC1EY0300AN
1879855-7	BMB-A 0402 470R N8	BMB1E0470AN8	1-2176492-7	BMC 0402 470R 25% A Gen C	BMC1EY0470AN
1879855-8	BMB-A 0402 600R N8	BMB1E0600AN8	1-2176492-9	BMC 0402 600R 25% A Gen C	BMC1EY0600AN
1879855-9	BMB-A 0402 1000R N8	BMB1E1000AN8	2-2176492-0	BMC 0402 1K0 25% A Gen C	BMC1EY1000AN
3-1624116-7	BMB-A 0603 1000R N8	BMB1J1000AN8	2-2176493-0	BMC 0603 1K0 25% A Gen C	BMC1JY1000AN
2-1624116-9	BMB-A 0603 100R N8	BMB1J0100AN8	2176493-7	BMC 0603 100R 25% A Gen C	BMC1JY0100AN
3-1624116-8	BMB-A 0603 1200R N8	BMB1J1200AN8	2176498-1	BMC 0603 1K2 25% K GEN C	BMC1JY1200KN
3-1624116-0	BMB-A 0603 120R N8	BMB1J0120AN8	2176493-8	BMC 0603 120R 25% A Gen C	BMC1JY0120AN
3-1624116-9	BMB-A 0603 1500R N8	BMB1J1500AN8	2-2176493-2	BMC 0603 1K5 25% A Gen C	BMC1JY1500AN
3-1624116-1	BMB-A 0603 180R N8	BMB1J0180AN8	1-2176493-0	BMC 0603 180R 25% A Gen C	BMC1JY0180AN
3-1624116-2	BMB-A 0603 220R N8	BMB1J0220AN8	1-2176493-2	BMC 0603 220R 25% A Gen C	BMC1JY0220AN
3-1624116-3	BMB-A 0603 240R N8	BMB1J0240AN8	1-2176493-3	BMC 0603 240R 25% A Gen C	BMC1JY0240AN
3-1624116-4	BMB-A 0603 300R N8	BMB1J0300AN8	1-2176493-4	BMC 0603 300R 25% A Gen C	BMC1JY0300AN
2-1624116-5	BMB-A 0603 30R N8	BMB1J0030AN8	NO Suitable Alternative		
2-1624116-6	BMB-A 0603 40R N8	BMB1J0040AN8	NO Suitable Alternative		
3-1624116-5	BMB-A 0603 450R N8	BMB1J0450AN8	1-2176493-7	BMC 0603 450R 25% A Gen C	BMC1JY0450AN
3-1624116-6	BMB-A 0603 600R N8	BMB1J0600AN8	1-2176493-8	BMC 0603 600R 25% A Gen C	BMC1JY0600AN
2-1624116-7	BMB-A 0603 60R N8	BMB1J0060AN8	2176493-4	BMC 0603 60R 25% A Gen C	BMC1JY0060AN
2-1624116-8	BMB-A 0603 80R N8	BMB1J0080AN8	2176493-6	BMC 0603 80R 25% A Gen C	BMC1JY0080AN
4-1624117-2	BMB-A 0805 1000R N4	BMB2A1000AN4	2176486-1	BMC 0805 1K0 25% A Gen C	BMC2AY1000AN
3-1624117-2	BMB-A 0805 10R N8	BMB2A0010AN8	NO Suitable Alternative		
4-1624117-3	BMB-A 0805 1200R N4	BMB2A1200AN4	2176488-2	BMC 0805 1K2 25% K GEN C	BMC2AY1200KN
3-1624117-1	BMB-A 0805 120R N2	BMB2A0120AN2	2176486-2	BMC 0805 120R 25% A Gen C	BMC2AY0120AN
3-1624117-6	BMB-A 0805 120R N8	BMB2A0120AN8	2176486-2	BMC 0805 120R 25% A Gen C	BMC2AY0120AN
4-1624117-4	BMB-A 0805 1500R N4	BMB2A1500AN4	1-2176486-8	BMC 0805 1K5 25% A Gen C	BMC2AY1500AN
3-1624117-3	BMB-A 0805 17R N8	BMB2A0017AN8	2176486-6	BMC 0805 17R 25% A Gen C	BMC2AY0017AN
4-1624117-5	BMB-A 0805 2000R N4	BMB2A2000AN4	2176488-3	BMC 0805 2K0 25% K GEN C	BMC2AY2000KN
4-1624117-6	BMB-A 0805 2700R N4	BMB2A2700AN4	2176488-4	BMC 0805 2K7 25% K GEN C	BMC2AY2700KN
3-1624117-8	BMB-A 0805 300R N8	BMB2A0300AN8	2176486-4	BMC 0805 300R 25% A Gen C	BMC2AY0300AN

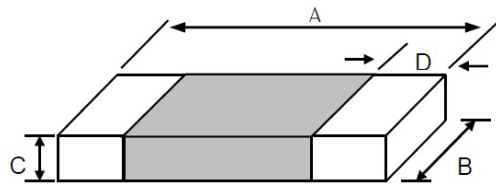
# Multilayer Ferrite Beads



3-1624117-9	BMB-A 0805 400R N8	BMB2A0400AN8	1-2176486-5	BMC 0805 400R 25% A Gen C	BMC2AY0400AN
3-1624117-5	BMB-A 0805 80R N4	BMB2A0080AN4	1-2176486-2	BMC 0805 80R 25% A Gen C	BMC2AY0080AN
1-1879855-3	BMB-B 0402 120R N7	BMB1E0120BN7	2176492-9	BMC 0402 120R 25% A Gen C	BMC1EY0120AN
1-1879855-4	BMB-B 0402 220R N7	BMB1E0220BN7	1-2176492-2	BMC 0402 220R 25% A Gen C	BMC1EY0220AN
1-1879855-0	BMB-B 0402 22R N7	BMB1E0022BN7	2176500-1	BMC 0402 22R 25% H GEN C	BMC1EY0022HN
1-1879855-1	BMB-B 0402 47R N7	BMB1E0047BN7	2176500-2	BMC 0402 47R 25% H GEN C	BMC1EY0047HN
1-1879855-2	BMB-B 0402 75R N7	BMB1E0075BN7	2176500-3	BMC 0402 75R 25% H GEN C	BMC1EY0075HN
1624116-4	BMB-B 0603 120R	BMB1J0120BN3JIT	2176493-8	BMC 0603 120R 25% A Gen C	BMC1JY0120AN
4-1624116-2	BMB-B 0603 120R N7	BMB1J0120BN7	2176493-8	BMC 0603 120R 25% A Gen C	BMC1JY0120AN
4-1624116-3	BMB-B 0603 240R N7	BMB1J0240BN7	1-2176493-3	BMC 0603 240R 25% A Gen C	BMC1JY0240AN
1624116-8	BMB-B 0603 300R	BMB1J0300BN3JIT	1-2176493-4	BMC 0603 300R 25% A Gen C	BMC1JY0300AN
4-1624116-4	BMB-B 0603 300R N7	BMB1J0300BN7	1-2176493-4	BMC 0603 300R 25% A Gen C	BMC1JY0300AN
4-1624116-0	BMB-B 0603 30R N7	BMB1J0030BN7	NO Suitable Alternative		
1-1624116-0	BMB-B 0603 420R	BMB1J0420BN3JIT	1-2176493-6	BMC 0603 420R 25% A Gen C	BMC1JY0420AN
4-1624116-5	BMB-B 0603 420R N7	BMB1J0420BN7	1-2176493-6	BMC 0603 420R 25% A Gen C	BMC1JY0420AN
1624116-1	BMB-B 0603 5R	BMB1J0005BN3	NO Suitable Alternative		
1-1624116-2	BMB-B 0603 600R	BMB1J0600BN3JIT	1-2176493-8	BMC 0603 600R 25% A Gen C	BMC1JY0600AN
4-1624116-6	BMB-B 0603 600R N7	BMB1J0600BN7	1-2176493-8	BMC 0603 600R 25% A Gen C	BMC1JY0600AN
1624116-3	BMB-B 0603 70R	BMB1J0070BN3JIT	NO Suitable Alternative		
4-1624116-1	BMB-B 0603 70R N7	BMB1J0070BN7	NO Suitable Alternative		
5-1624117-7	BMB-B 0805 1000R N7	BMB2A1000BN7	2176486-1	BMC 0805 1K0 25% A Gen C	BMC2AY1000AN
5-1624117-1	BMB-B 0805 120R N7	BMB2A0120BN7	2176486-2	BMC 0805 120R 25% A Gen C	BMC2AY0120AN
1624117-9	BMB-B 0805 200R	BMB2A0200BN3	NO Suitable Alternative		
5-1624117-2	BMB-B 0805 200R N7	BMB2A0200BN7	NO Suitable Alternative		
1624117-2	BMB-B 0805 56R	BMB2A0056BN3	NO Suitable Alternative		
1624117-1	BMB-B 0805 5R	BMB2A0005BN3	NO Suitable Alternative		
2-1624117-0	BMB-L 0805 1K	BMB2A1000LN2	2176486-1	BMC 0805 1K0 25% A Gen C	BMC2AY1000AN
2-1624117-2	BMB-L 0805 470R	BMB2A0470LN2	1-2176486-6	BMC 0805 470R 25% A Gen C	BMC2AY0470AN
1-1879855-6	BMB-P 0402 10R N8	BMB1E0010PN8	2176496-2	BMC 0402 10R 25% A MED C	BMC1EY0010AG
4-1624116-7	BMB-P 0603 10R N8	BMB1J0010PN8	NO Suitable Alternative		
5-1624116-1	BMB-P 0603 120R N8	BMB1J0120PN8	2176499-3	BMC 0603 120R 25% A MED C	BMC1JY0120AG
5-1624116-2	BMB-P 0603 150R N8	BMB1J0150PN8	NO Suitable Alternative		
5-1624116-3	BMB-P 0603 220R N8	BMB1J0220PN8	2176499-4	BMC 0603 220R 25% A MED C	BMC1JY0220AG
4-1624116-8	BMB-P 0603 25R N8	BMB1J0025PN8	NO Suitable Alternative		
5-1624116-4	BMB-P 0603 300R N8	BMB1J0300PN8	2176499-5	BMC 0603 300R 25% A MED C	BMC1JY0300AG
4-1624116-9	BMB-P 0603 30R N8	BMB1J0030PN8	2176499-1	BMC 0603 30R 25% A MED C	BMC1JY0030AG
5-1624116-5	BMB-P 0603 470R N8	BMB1J0470PN8	2176499-7	BMC 0603 470R 25% A MED C	BMC1JY0470AG
5-1624116-6	BMB-P 0603 600R N8	BMB1J0600PN8	2176499-8	BMC 0603 600R 25% A MED C	BMC1JY0600AG
5-1624116-0	BMB-P 0603 60R N8	BMB1J0060PN8	2176499-2	BMC 0603 60R 25% A MED C	BMC1JY0060AG
5-1624117-8	BMB-P 0805 10R N8	BMB2A0010PN8	NO Suitable Alternative		
6-1624117-3	BMB-P 0805 120R N8	BMB2A0120PN8	2176487-4	BMC 0805 120R 25% A Med C	BMC2AY0120AG
2-1624117-8	BMB-P 0805 150R	BMB2A0150PN2	NO Suitable Alternative		
6-1624117-4	BMB-P 0805 150R N8	BMB2A0150PN8	NO Suitable Alternative		
6-1624117-5	BMB-P 0805 220R N8	BMB2A0220PN8	2176487-5	BMC 0805 220R 25% A Med C	BMC2AY0220AG
6-1624117-6	BMB-P 0805 300R N8	BMB2A0300PN8	2176487-1	BMC 0805 300R 25% A Med C	BMC2AY0300AG
6-1624117-0	BMB-P 0805 30R N8	BMB2A0030PN8	2176487-6	BMC 0805 30R 25% A Med C	BMC2AY0030AG
6-1624117-7	BMB-P 0805 470R N8	BMB2A0470PN8	2176487-7	BMC 0805 470R 25% A Med C	BMC2AY0470AG

6-1624117-8	BMB-P 0805 600R N8	BMB2A0600PN8		2176487-8	BMC 0805 600R 25% A Med C	BMC2AY0600AG
6-1624117-1	BMB-P 0805 60R N8	BMB2A0060PN8		2176487-2	BMC 0805 60R 25% A Med C	BMC2AY0060AG
6-1624117-2	BMB-P 0805 80R N8	BMB2A0080PN8		2176487-3	BMC 0805 80R 25% A Med C	BMC2AY0080AG
6-1624116-0	BMB-S 0603 120R N1	BMB1J0120SN1		2176499-3	BMC 0603 120R 25% A MED C	BMC1JY0120AG
6-1624116-1	BMB-S 0603 220R N1	BMB1J0220SN1		2176499-4	BMC 0603 220R 25% A MED C	BMC1JY0220AG
5-1624116-7	BMB-S 0603 26R N1	BMB1J0026SN1		NO Suitable Alternative		
5-1624116-8	BMB-S 0603 30R N1	BMB1J0030SN1		2176499-1	BMC 0603 30R 25% A MED C	BMC1JY0030AG
6-1624116-2	BMB-S 0603 330R N1	BMB1J0330SN1		2176499-6	BMC 0603 330R 25% A MED C	BMC1JY0330AG1
5-1624116-9	BMB-S 0603 70R N1	BMB1J0070SN1		NO Suitable Alternative		

## Dimensions



Type	Size (Inch)	A (mm)	B (mm)	C (mm)	D (mm)
BMB1E	0402	1.0 ±0.10	0.5 ±0.10	0.5 ±0.10	0.25 ±0.10
BMC1E	0402	1.0±0.10	0.50±0.10	0.5±0.10	0.1~0.35
BMB1J	0603	1.6 ±0.15	0.8 ±0.15	0.8 ±0.15	0.3 ±0.20
BMC1J	0603	1.6±0.20	0.80±0.15	0.8±0.15	0.1~0.6
BMB2A	0805	2.0 ±0.20	1.2 ±0.20	0.9 ±0.20	0.5 ±0.30
BMC2A	0805	2.0±0.20	1.25±0.20	0.9±0.20	0.2~0.8

## Electrical Characteristics

Original Part				Replacement			
Alias	Impedance	DC Resistance (Ω) maximum	Rated Current (mA) maximum	New Alias	Impedance	DC Resistance (Ω) maximum	Rated Current (mA) maximum
BMB1E0030AN8	30	0.15	500	BMC1EY0030AN	30	0.2	300
BMB1E0060AN8	60	0.15	500	BMC1EY0060AN	60	0.4	200
BMB1E0120AN8	120	0.25	500	BMC1EY0120AN	120	0.5	200
BMB1E0220AN8	220	0.35	300	BMC1EY0220AN	220	0.28	700
BMB1E0300AN8	300	0.45	300	BMC1EY0300AN	300	0.75	100
BMB1E0470AN8	470	0.55	300	BMC1EY0470AN	470	0.9	100
BMB1E0600AN8	600	0.65	200	BMC1EY0600AN	600	1.1	50
BMB1E1000AN8	1000	1	150	BMC1EY1000AN	1000	1.5	50
BMB1J1000AN8	1000	1	100	BMC1JY1000AN	1000	0.55	300
BMB1J0100AN8	100	0.4	200	BMC1JY0100AN	100	0.15	400
BMB1J1200AN8	1200	1	100	BMC1JY1200KN	1200	0.85	100

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BMB1J0120AN8	120	0.4	200		BMC1JY0120AN	120	0.15	400
BMB1J1500AN8	1500	1	200		BMC1JY1500AN	1500	0.6	200
BMB1J0180AN8	180	0.5	200		BMC1JY0180AN	180	0.2	400
BMB1J0220AN8	220	0.5	200		BMC1JY0220AN	220	0.2	400
BMB1J0240AN8	240	0.5	200		BMC1JY0240AN	240	0.17	500
BMB1J0300AN8	300	0.5	200		BMC1JY0300AN	300	0.2	600
BMB1J0030AN8	30	0.2	400		NO Suitable Alternative			
BMB1J0040AN8	40	0.2	400		NO Suitable Alternative			
BMB1J0450AN8	450	0.7	200		BMC1JY0450AN	450	0.3	400
BMB1J0600AN8	600	0.7	150		BMC1JY0600AN	600	0.35	400
BMB1J0060AN8	60	0.2	300		BMC1JY0060AN	60	0.15	400
BMB1J0080AN8	80	0.4	300		BMC1JY0080AN	80	0.15	400
BMB2A1000AN4	1000	0.8	100		BMC2AY1000AN	1000	0.45	300
BMB2A0010AN8	10	0.1	600		NO Suitable Alternative			
BMB2A1200AN4	1200	0.8	100		BMC2AY1200KN	1200	0.4	200
BMB2A0120AN2	120	0.3	300		BMC2AY0120AN	120	0.2	300
BMB2A0120AN8	120	0.3	300		BMC2AY0120AN	120	0.2	300
BMB2A1500AN4	1500	1	100		BMC2AY1500AN	1500	0.7	300
BMB2A0017AN8	17	0.1	600		BMC2AY0017AN	17	0.1	300
BMB2A2000AN4	2000	1	100		BMC2AY2000KN	2000	0.6	200
BMB2A2700AN4	2700	1.5	100		BMC2AY2700KN	2700	0.7	200
BMB2A0300AN8	300	0.5	250		BMC2AY0300AN	300	0.25	300
BMB2A0400AN8	400	0.5	250		BMC2AY0400AN	400	0.3	300
BMB2A0080AN4	80	0.3	400		BMC2AY0080AN	80	0.15	300
BMB1E0120BN7	120	0.4	300		BMC1EY0120AN	120	0.5	200
BMB1E0220BN7	220	0.6	300		BMC1EY0220AN	220	0.28	700
BMB1E0022BN7	22	0.2	300		BMC1EY0022HN	22	0.2	300
BMB1E0047BN7	47	0.35	300		BMC1EY0047HN	47	0.35	300
BMB1E0075BN7	75	0.4	300		BMC1EY0075HN	75	0.4	300
BMB1J0120BN3JIT	120	0.4	200		BMC1JY0120AN	120	0.15	400
BMB1J0120BN7	120	0.4	200		BMC1JY0120AN	120	0.15	400
BMB1J0240BN7	240	0.4	200		BMC1JY0240AN	240	0.17	500
BMB1J0300BN3JIT	300	0.5	100		BMC1JY0300AN	300	0.2	600
BMB1J0300BN7	300	0.5	100		BMC1JY0300AN	300	0.2	600
BMB1J0030BN7	30	0.3	250		NO Suitable Alternative			
BMB1J0420BN3JIT	420	0.5	200		BMC1JY0420AN	420	0.3	400
BMB1J0420BN7	420	0.5	200		BMC1JY0420AN	420	0.3	400
BMB1J0005BN3	#N/A	#N/A	#N/A		NO Suitable Alternative			
BMB1J0600BN3JIT	600	0.6	100		BMC1JY0600AN	600	0.35	400
BMB1J0600BN7	600	0.6	100		BMC1JY0600AN	600	0.35	400
BMB1J0070BN3JIT	70	0.4	200		NO Suitable Alternative			
BMB1J0070BN7	70	0.4	200		NO Suitable Alternative			
BMB2A1000BN7	1000	0.8	200		BMC2AY1000AN	1000	0.45	300
BMB2A0120BN7	120	0.4	300		BMC2AY0120AN	120	0.2	300
BMB2A0200BN3	200	0.5	200		NO Suitable Alternative			
BMB2A0200BN7	200	0.5	200		NO Suitable Alternative			
BMB2A0056BN3	#N/A	#N/A	#N/A		NO Suitable Alternative			

# Multilayer Ferrite Beads



BMB2A0005BN3	#N/A	#N/A	#N/A		NO Suitable Alternative			
BMB2A1000LN2	1000	0.3	350		BMC2AY1000AN	1000	0.45	300
BMB2A0470LN2	470	0.2	500		BMC2AY0470AN	470	0.18	700
BMB1E0010PN8	10	0.05	1000		BMC1EY0010AG	10	0.03	2000
BMB1J0010PN8	10	0.01	5000		NO Suitable Alternative			
BMB1J0120PN8	120	0.05	2500		BMC1JY0120AG	120	0.05	2000
BMB1J0150PN8	150	0.07	2000		NO Suitable Alternative			
BMB1J0220PN8	220	0.1	2000		BMC1JY0220AG	220	0.08	2000
BMB1J0025PN8	25	0.03	3000		NO Suitable Alternative			
BMB1J0300PN8	300	0.1	2000		BMC1JY0300AG	300	0.15	2000
BMB1J0030PN8	30	0.03	3000		BMC1JY0030AG	30	0.04	3000
BMB1J0470PN8	470	0.15	1500		BMC1JY0470AG	470	0.15	1500
BMB1J0600PN8	600	0.2	1500		BMC1JY0600AG	600	0.3	1000
BMB1J0060PN8	60	0.04	3000		BMC1JY0060AG	60	0.04	3000
BMB2A0010PN8	10	0.01	6000		NO Suitable Alternative			
BMB2A0120PN8	120	0.04	3000		BMC2AY0120AG	120	0.05	3000
BMB2A0150PN2	150	0.04	3000		NO Suitable Alternative			
BMB2A0150PN8	150	0.04	3000		NO Suitable Alternative			
BMB2A0220PN8	220	0.04	3000		BMC2AY0220AG	220	0.05	3000
BMB2A0300PN8	300	0.07	2000		BMC2AY0300AG	300	0.05	3000
BMB2A0030PN8	30	0.015	3000		BMC2AY0030AG	30	0.03	3000
BMB2A0470PN8	470	0.1	2000		BMC2AY0470AG	470	0.1	2000
BMB2A0600PN8	600	0.1	2000		BMC2AY0600AG	600	0.1	2000
BMB2A0060PN8	60	0.025	3000		BMC2AY0060AG	60	0.04	3000
BMB2A0080PN8	80	0.04	5000		BMC2AY0080AG	80	0.04	3000
BMB1J0120SN1	120	0.04	3000		BMC1JY0120AG	120	0.05	2000
BMB1J0220SN1	220	0.04	2500		BMC1JY0220AG	220	0.08	2000
BMB1J0026SN1	26	0.015	6000		NO Suitable Alternative			
BMB1J0030SN1	30	0.01	5000		BMC1JY0030AG	30	0.04	3000
BMB1J0330SN1	330	0.085	1500		BMC1JY0330AG1	330	0.07	2000
BMB1J0070SN1	70	0.025	3000		NO Suitable Alternative			

For BMC Series Impedance vs. Frequency Characteristics please see separate document BMC Series Frequency Graphs Downloadable from [WWW.te.com](http://WWW.te.com)

## Type BMC Series

### Key Features

Effective EMI protection

Low DC resistance

High soldering heat resistance

Multiple size availability

Other specifications can be made on application



The BMC Series of beads cover a wide range of impedance characteristics. The chip beads have a monolithic inorganic material construction that minimises the effect of electromagnetic interference. This series is offered in 0402, 0603, 0805, 1204 and 1210 package sizes

## Characteristics – Electrical

### Applications

Cellular Phones

Computers and Peripheral Equipment

Automation Controls

Sensors

VCRS, Television, Pagers

Circuit Where a Stable Ground is Unavailable

### Electrical Specifications

#### For General Signal Line Use (AN)

#### BMC 0201 AN

Part No.	Impedance ( $\Omega$ )	Tolerance	TestFreq. (MHz)	DCR ( $\Omega$ )max.	Rated Current (mA)max. at 85°C
BMC1HY0010AN	10	$\pm 25\%$	100	0.10	500
BMC1HY0030AN	30	$\pm 25\%$	100	0.30	300
BMC1HY0033AN	33	$\pm 25\%$	100	0.30	300
BMC1HY0040AN	40	$\pm 25\%$	100	0.30	300
BMC1HY0050AN	50	$\pm 25\%$	100	0.30	300
BMC1HY0060AN	60	$\pm 25\%$	100	0.35	300
BMC1HY0070AN	70	$\pm 25\%$	100	0.35	300
BMC1HY0100AN	100	$\pm 25\%$	100	0.40	200
BMC1HY0120AN	120	$\pm 25\%$	100	0.45	200
BMC1HY0150AN	150	$\pm 25\%$	100	0.50	200
BMC1HY0220AN	220	$\pm 25\%$	100	0.75	200
BMC1HY0300AN	300	$\pm 25\%$	100	0.90	150

**BMC 0402 AN**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC1EY0010AN	10	±25%	100	0.05	500
BMC1EY0030AN	30	±25%	100	0.20	300
BMC1EY0040AN	40	±25%	100	0.20	300
BMC1EY0060AN	60	±25%	100	0.40	200
BMC1EY0068AN	68	±25%	100	0.15	500
BMC1EY0070AN	70	±25%	100	0.40	200
BMC1EY0080AN	80	±25%	100	0.40	200
BMC1EY0100AN	100	±25%	100	0.45	200
BMC1EY0120AN	120	±25%	100	0.50	200
BMC1EY0150AN	150	±25%	100	0.60	200
BMC1EY0180AN	180	±25%	100	0.65	100
BMC1EY0220AN	220	±25%	100	0.28	700
BMC1EY0240AN	240	±25%	100	0.30	500
BMC1EY0300AN	300	±25%	100	0.75	100
BMC1EY0330AN	330	±25%	100	0.75	100
BMC1EY0430AN	430	±25%	100	0.50	350
BMC1EY0470AN	470	±25%	100	0.90	100
BMC1EY0500AN	500	±25%	100	1.00	100
BMC1EY0600AN	600	±25%	100	1.10	50
BMC1EY1000AN	1000	±25%	100	1.50	50

**BMC 0603 AN**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC1JY0019AN	19	±25%	100	0.10	400
BMC1JY0031AN	31	±25%	100	0.10	400
BMC1JY0052AN	52	±25%	100	0.15	400
BMC1JY0060AN	60	±25%	100	0.15	400
BMC1JY0075AN	75	±25%	100	0.15	400
BMC1JY0080AN	80	±25%	100	0.15	400
BMC1JY0100AN	100	±25%	100	0.15	400
BMC1JY0120AN	120	±25%	100	0.15	400
BMC1JY0150AN	150	±25%	100	0.15	400
BMC1JY0180AN	180	±25%	100	0.20	400
BMC1JY0200AN	200	±25%	100	0.20	400
BMC1JY0220AN	220	±25%	100	0.20	400
BMC1JY0240AN	240	±25%	100	0.17	500
BMC1JY0300AN	300	±25%	100	0.2	600
BMC1JY0400AN	400	±25%	100	0.30	400
BMC1JY0420AN	420	±25%	100	0.30	400



**BMC 0603 AN (continued)**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC1JY0450AN	450	±25%	100	0.30	400
BMC1JY0600AN	600	±25%	100	0.35	400
BMC1JY0750AN	750	±25%	100	0.35	400
BMC1JY1000AN	1000	±25%	100	0.55	300
BMC1JY1000AN1	1000	±25%	100	0.25	800
BMC1JY1500AN	1500	±25%	100	0.60	200

**BMC 0805 AN**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC2AY0017AN	17	±25%	100	0.10	300
BMC2AY0026AN	26	±25%	100	0.10	300
BMC2AY0030AN	30	±25%	100	0.10	300
BMC2AY0031AN	31	±25%	100	0.10	300
BMC2AY0052AN	52	±25%	100	0.15	300
BMC2AY0060AN	60	±25%	100	0.15	300
BMC2AY0080AN	80	±25%	100	0.15	300
BMC2AY0100AN	100	±25%	100	0.20	300
BMC2AY0120AN	120	±25%	100	0.20	300
BMC2AY0150AN	150	±25%	100	0.20	300
BMC2AY0220AN	220	±25%	100	0.25	300
BMC2AY0300AN	300	±25%	100	0.25	300
BMC2AY0400AN	400	±25%	100	0.30	300
BMC2AY0470AN	470	±25%	100	0.18	700
BMC2AY0530AN	530	±25%	100	0.35	300
BMC2AY0600AN	600	±25%	100	0.35	300
BMC2AY1000AN	1000	±25%	100	0.45	300
BMC2AY1500AN	1500	±25%	100	0.70	300

**BMC 1204 AN**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC2CY0019AN	19	±25%	100	0.10	800
BMC2CY0026AN	26	±25%	100	0.10	800
BMC2CY0031AN	31	±25%	100	0.10	800
BMC2CY0052AN	52	±25%	100	0.15	800

**BMC 1204 AN (continued)**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC2CY0060AN	60	±25%	100	0.15	500
BMC2CY0070AN	70	±25%	100	0.15	500
BMC2CY0100AN	100	±25%	100	0.20	450
BMC2CY0120AN	120	±25%	100	0.20	450
BMC2CY0150AN	150	±25%	100	0.20	450
BMC2CY0220AN	220	±25%	100	0.20	350
BMC2CY0300AN	300	±25%	100	0.20	350
BMC2CY0400AN	400	±25%	100	0.25	350
BMC2CY0600AN	600	±25%	100	0.25	350
BMC2CY0750AN	750	±25%	100	0.30	350
BMC2CY0800AN	800	±25%	100	0.30	350
BMC2CY1000AN	1000	±25%	100	0.35	350
BMC2CY1200AN	1200	±25%	100	0.35	350

**BMC 1210 AN**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC2EY0031AN	31	±25%	100	0.10	500
BMC2EY0052AN	52	±25%	100	0.30	400
BMC2EY0060AN	60	±25%	100	0.30	400

**Electrical Specifications****For General Signal Line, Frequency Higher Than A Use (KN)****BMC 0402 KN**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC1EY0220KN	220	±25%	100	0.80	100
BMC1EY0300KN	300	±25%	100	0.85	100

**BMC 0603 KN**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC1JY1000KN	1000	±25%	100	0.85	100
BMC1JY1200KN	1200	±25%	100	0.85	100
BMC1JY1500KN	1500	±25%	100	0.90	100
BMC1JY1800KN	1800	±25%	100	1.00	100
BMC1JY2000KN	2000	±25%	100	1.00	100
BMC1JY2500KN	2500	±25%	100	1.00	50

**BMC 0805 KN**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC2AY0080KN	80	±25%	100	0.30	300
BMC2AY0600KN	600	±25%	100	0.35	200
BMC2AY1000KN	1000	±25%	100	0.40	200
BMC2AY1200KN	1200	±25%	100	0.40	200
BMC2AY1500KN	1500	±25%	100	0.45	200
BMC2AY2000KN	2000	±25%	100	0.60	200
BMC2AY2200KN	2200	±25%	100	0.60	200
BMC2AY2500KN	2500	±25%	100	0.70	200
BMC2AY2700KN	2700	±25%	100	0.70	200

**Electrical Specifications****For Medium Current Line Use (AG)****BMC 0402 AG**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC1EY0010AG	10	±25%	100	0.03	2000
BMC1EY0030AG	30	±25%	100	0.03	3000
BMC1EY0060AG	60	±25%	100	0.075	1500
BMC1EY0070AG	70	±25%	100	0.09	1200
BMC1EY0100AG	100	±25%	100	0.09	1200
BMC1EY0120AG	120	±25%	100	0.075	1500
BMC1EY0220AG	220	±25%	100	0.20	1000

**BMC 0603 AG**

Part No.	Impedance ( $\Omega$ )	Tolerance	TestFreq. (MHz)	DCR ( $\Omega$ )max.	Rated Current (mA)max. at 85°C
BMC1JY0022AG	22	±25%	100	0.04	3000
BMC1JY0030AG	30	±25%	100	0.04	3000
BMC1JY0033AG	33	±25%	100	0.025	3000
BMC1JY0047AG	47	±25%	100	0.04	3000
BMC1JY0060AG	60	±25%	100	0.04	3000
BMC1JY0062AG	62	±25%	100	0.04	3000
BMC1JY0100AG	100	±25%	100	0.05	3000
BMC1JY0120AG	120	±25%	100	0.05	2000
BMC1JY0180AG	180	±25%	100	0.08	2000
BMC1JY0220AG	220	±25%	100	0.08	2000
BMC1JY0300AG	300	±25%	100	0.15	2000
BMC1JY0470AG	470	±25%	100	0.15	1500
BMC1JY0600AG	600	±25%	100	0.30	1000
BMC1JY0750AG	750	±25%	100	0.30	1000
BMC1JY1000AG	1000	±25%	100	0.25	1000

**BMC 0805 AG**

Part No.	Impedance ( $\Omega$ )	Tolerance	TestFreq. (MHz)	DCR ( $\Omega$ )max.	Rated Current (mA)max. at 85°C
BMC2AY0011AG	11	±25%	100	0.03	3000
BMC2AY0017AG	17	±25%	100	0.03	3000
BMC2AY0030AG	30	±25%	100	0.05	3000
BMC2AY0031AG	31	±25%	100	0.03	3000
BMC2AY0039AG	39	±25%	100	0.03	3000
BMC2AY0040AG	40	±25%	100	0.03	3000
BMC2AY0047AG	47	±25%	100	0.03	3000
BMC2AY0050AG	50	±25%	100	0.03	3000
BMC2AY0052AG	52	±25%	100	0.03	3000
BMC2AY0060AG	60	±25%	100	0.04	3000
BMC2AY0080AG	80	±25%	100	0.04	3000
BMC2AY0100AG	100	±25%	100	0.04	3000
BMC2AY0120AG	120	±25%	100	0.05	3000
BMC2AY0180AG	180	±25%	100	0.05	3000
BMC2AY0220AG	220	±25%	100	0.05	3000
BMC2AY0300AG	300	±25%	100	0.05	3000
BMC2AY0330AG	330	±25%	100	0.05	3000
BMC2AY0470AG	470	±25%	100	0.10	2000
BMC2AY0600AG	600	±25%	100	0.10	2000
BMC2AY1000AG	1000	±25%	100	0.30	1000
BMC2AY1500AG	1500	±25%	100	0.30	1000

## Standard Electrical Specifications

### For High Speed Signal Line Use (BN)

#### BMC 0402 BN

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC1EY0470BN	470	±25%	100	1.00	100
BMC1EY0600BN	600	±25%	100	1.50	50

Other impedance values on application

#### BMC 0603 BN

On Application only

#### BMC 0805 BN

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC2AY1500BN	1500	±25%	100	0.35	200
BMC2AY1800BN	1800	±25%	100	0.40	200
BMC2AY2000BN	2000	±25%	100	0.40	200
BMC2AY2200BN	2200	±25%	100	0.50	200
BMC2AY2500BN	2500	±25%	100	0.60	200
BMC2AY2700BN	2700	±25%	100	0.60	200

Other impedance values on application

#### BMC 1204 BN

On Application only

## Standard Electrical Specifications

### For Ultra High Speed Signal Line Use (HN)

#### BMC 0402 HN

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC1EY0022HN	22	±25%	100	0.20	300
BMC1EY0030HN	30	±25%	100	0.20	300
BMC1EY0033HN	33	±25%	100	0.40	300
BMC1EY0047HN	47	±25%	100	0.35	300

**BMC 0402 HN (continued)**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC1EY0047HN1	47	±25%	100	0.33	350
BMC1EY0060HN	60	±25%	100	0.40	300
BMC1EY0075HN	75	±25%	100	0.40	300
BMC1EY0100HN	100	±25%	100	0.55	300
BMC1EY0120HN	120	±25%	100	0.55	300
BMC1EY0220HN	220	±25%	100	0.80	200
BMC1EY0300HN	300	±25%	100	1.00	100

Other impedance values on application

**BMC 0603 HN**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC1JY0010HN	10	±25%	100	0.10	900
BMC1JY0020HN	20	±25%	100	0.20	600
BMC1JY0047HN	47	±25%	100	0.30	500
BMC1JY0047HN1	47	±25%	100	0.15	600
BMC1JY0120HN	120	±25%	100	0.30	300
BMC1JY0300HN	300	±25%	100	0.35	300
BMC1JY0600HN	600	±25%	100	0.65	300
BMC1JY1000HN	1000	±25%	100	1.10	50

Other impedance values on application

**BMC 0805 HN**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC2AY0600HN	600	±25%	100	0.65	200

Other impedance values on application

**Standard Electrical Specifications For High Current Line Use (AH)****BMC 0805 AH**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC2AY0017AH	17	±25%	100	0.008	6000

**BMC 0805 AH (continued)**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC2AY0022AH	22	±25%	100	0.008	6000
BMC2AY0030AH	30	±25%	100	0.008	6000
BMC2AY0030AH1	30	±25%	100	0.015	4000
BMC2AY0033AH	33	±25%	100	0.008	6000
BMC2AY0039AH	39	±25%	100	0.008	6000
BMC2AY0050AH	50	±25%	100	0.010	6000
BMC2AY0060AH	60	±25%	100	0.020	6000
BMC2AY0080AH	80	±25%	100	0.020	6000
BMC2AY0080AH2	80	±25%	100	0.010	5000
BMC2AY0100AH	100	±25%	100	0.020	5000
BMC2AY0100AH1	100	±25%	100	0.020	4000
BMC2AY0120AH	120	±25%	100	0.020	4000
BMC2AY0120AH1	120	±25%	100	0.015	5000

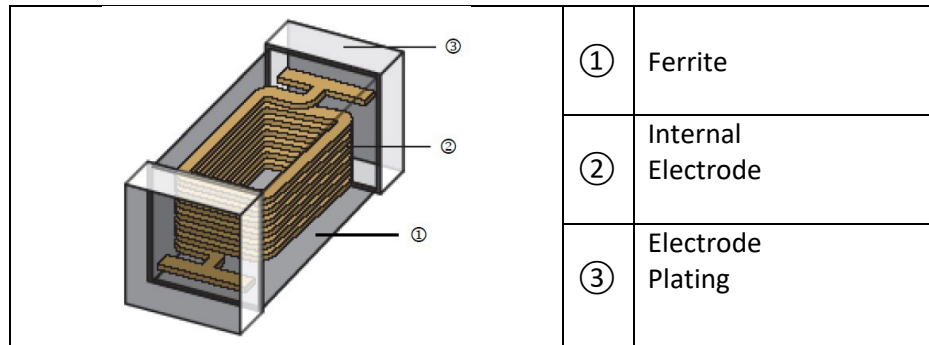
**BMC 1204 AH**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC2CY0026AH	26	±25%	100	0.006	6000
BMC2CY0031AH	31	±25%	100	0.006	6000
BMC2CY0033AH	33	±25%	100	0.006	6000
BMC2CY0048AH	48	±25%	100	0.008	6000
BMC2CY0050AH	50	±25%	100	0.008	6000
BMC2CY0052AH	52	±25%	100	0.008	6000
BMC2CY0060AH	60	±25%	100	0.020	4000
BMC2CY0080AH	80	±25%	100	0.020	4000
BMC2CY0120AH	120	±25%	100	0.020	4000
BMC2CY0120AH1	120	±25%	100	0.012	6000

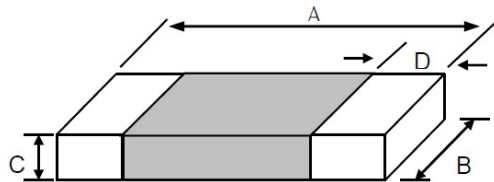
**BMC 1210 AH**

Part No.	Impedance (Ω)	Tolerance	TestFreq. (MHz)	DCR (Ω)max.	Rated Current (mA)max. at 85°C
BMC2EY0052AH	52	±25%	100	0.008	6000
BMC2EY0060AH	60	±25%	100	0.008	6000

### Construction

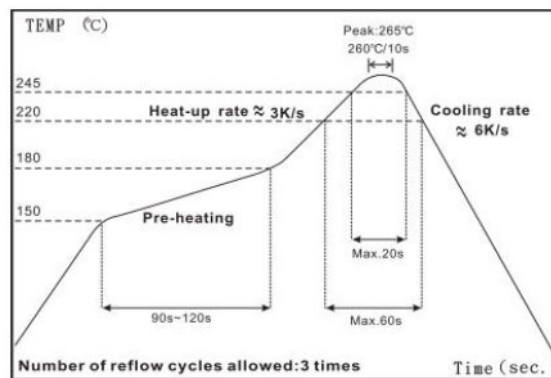


### Dimensions



Type	Size (Inch)	A (mm)	B (mm)	C (mm)	D (mm)	Weight (g) (1000pcs)
BMC1H	0201	0.6±0.03	0.30±0.03	0.30±0.03	0.1~0.2	1.1
BMC1E	0402	1.0±0.10	0.50±0.10	0.5±0.10	0.1~0.35	2.6
BMC1J	0603	1.6±0.20	0.80±0.15	0.8±0.15	0.1~0.6	6.2
BMC2A	0805	2.0±0.20	1.25±0.20	0.9±0.20	0.2~0.8	10
BMC2C	1204	3.2±0.20	1.60±0.20	1.1±0.20	0.2~1.0	30
BMC2E	1210	3.2±0.20	2.50±0.20	1.3±0.20	0.2~1.0	54

### Soldering Condition

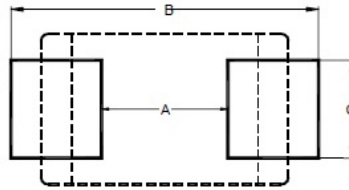


Time of IR reflow soldering at maximum temperature point 260°C : 10s

Time of soldering iron at maximum temperature point 280°C : 3s



## Recommended PCB layout plan



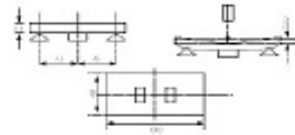
Type	Size (Inch)	A (mm)	B (mm)	C (mm)
BMC1H	0201	0.25	0.69	0.32
BMC1E	0402	0.50	2.10	0.55
BMC1J	0603	0.60	2.60	0.80
BMC2A	0805	0.66	3.23	1.47
BMC2C	1204	2.20	4.40	2.06
BMC2E	1210	2.13	4.06	2.74

## Environmental Characteristics

### Electrical Performance Test

Item	Specification	Test Methods
Impedance	As per Electrical spec.	HP4286A
DCR		HP 4338 digital mili-ohm meter

### Mechanical Performance Test

Item	Specification	Test Methods
Substrate Bending Test	Without deformation cases Impedance: within $\pm 30\%$ of initial value DC Resistance shall be satisfied	Test device shall be soldered on the substrate Substrate Dimension: 100x40x0.8mm Deflection: 3.0mm Keeping Time: 10 seconds then return 
Vibration	Appearance: No damage Impedance: within $\pm 30\%$ of initial value DC Resistance shall be satisfied	Test device shall be soldered on the substrate Oscillation Frequency : 10 to 55 to 10Hz for 1min Amplitude : 1.5mm(peak-peak) Time : 2hrs for each axis (X,Y&Z), total 6hrs

### Mechanical Performance Test (continued)

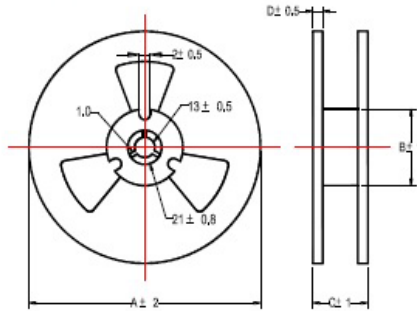
Item	Specification	Test Methods
Resistance to Soldering Heat	No visible damage Electrical characteristics and mechanical characteristics shall be satisfied	Solder temp: 265±5°C Immersion time: 6±1sec Preheating: 100°C to 150°C, 1 minute Measured after exposure in the room condition for 24hrs Solder: Sn-3Ag-0.5Cu
Solderability	95% min. coverage of all metallized area	Solder Temperature: 240±5°C Immersion Time: 3±1sec Solder: Sn-3Ag-0.5Cu
Terminal Strength	Without deformation cases Impedance: within±30% of initial value DC Resistance shall be satisfied	Solder chip on PCB and applied 10N (1.02Kgf) for 10 sec
Temperature Cycle	Appearance: No damage. Impedance: within±30% of initial value DC Resistance shall be satisfied	One cycle: <b>step1:</b> -55±3°C for 30±3min <b>step2:</b> standard atmospheric conditions 5s or less <b>step3:</b> 125±2°C for 30±3min <b>step4:</b> standard atmospheric conditions 5s or less Total: 100cycles Measured after exposure in the room condition for 24hrs
Humidity Resistance		Temperature: 60±2°C Relative Humidity: 90 ~ 95% Applied Current: Rated Current (maximum value) Time: 1008±12hrs Measured after exposure in the room condition for 24hrs
High Temperature Resistance		Temperature: 125±2°C Applied Current: Rated Current (maximum value) Time: 1008±12hrs Measured after exposure in the room condition for 24hrs
Low Temperature Storage Life Test		Temperature: -55±2°C Time: 1008±12hrs Measured after exposure in the room condition for 24hrs
Thermal Shock		-55°C~125°C kept stabilized for 30 minutes each for 100 cycles Measured after exposure in the room condition for 24hrs

Operating Temperature: -55°C ~ 125°C

Storage Temperature: <40°C ; Humidity 30~70%RH

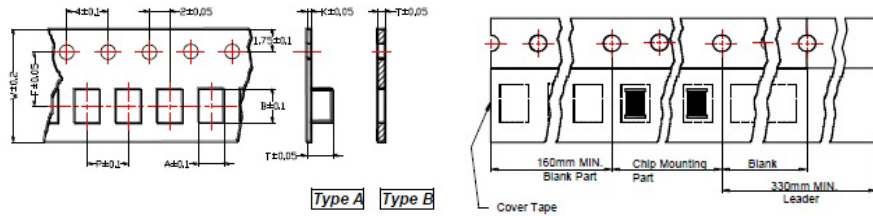
## Packaging

### Reel Specifications



Reel Dimensions			
A	B	C	D
178	60	10	2

### Tape Specifications



Type	A	B	T	W	P	F	K	Tape	Quantity
BMC1H	0.38	0.68	1.10	8.0	2.0	3.5	-	B	15000
BMC1E	0.65	1.15	0.80	8.0	2.0	3.5	-	B	10000
BMC1J	1.10	1.90	1.10	8.0	4.0	3.5	-	B	4000
BMC2A	1.55	2.30	1.20	8.0	4.0	3.5	-	B	4000
BMC2C	1.90	3.50	1.40	8.0	4.0	3.5	0.2	A	3000
BMC2E	2.90	3.60	1.70	8.0	4.0	3.5	0.2	A	2000

## How To Order

BMC	2A	Y	0600	A	N	
Common Part	Size	Tolerance	Impedance	Use Code	Current Type	Option
BMC	1H - 0201 1E - 0402 1J - 0603 2A - 0805 2C - 1204 2E - 1210	Y: ±25%	0010 - 10Ω 0300 - 300Ω 1000 - 1KΩ	A B H K Y	H: High current G: Medium current N: General current F: High Frequency C: High current & High Frequency	Blank - Standard  1, 2, 3 - Option

NOTE:

...AN configuration preferred – other configurations on case-by-case request.

## Type BMB-A Series

### Key Features

Effective EMI Protection

Wide Frequency Characteristics

High soldering Heat Resistance

Various Package Sizes Available

Suited to a Variety of Applications

Terminal finish matte Sn over Cu/Ni underplate



The BMB A Series of beads cover a wide range of impedance characteristics. The chip beads have a monolithic inorganic material construction that minimises the effect of electromagnetic interference. These are high loss types for general use. This series is offered in 0402, 0603, 0805 and 1206 package sizes

### Electrical Performance

Part Number	Impedance ( $\Omega$ ) at 100MHz	DC Resistance ( $\Omega$ ) maximum	Rated Current (mA) maximum
BMB-1E-0030A-N8	30 $\pm$ 25%	0.15	500
BMB-1E-0060A-N8	60 $\pm$ 25%		
BMB-1E-0120A-N8	120 $\pm$ 25%	0.25	300
BMB-1E-0220A-N8	220 $\pm$ 25%	0.35	
BMB-1E-0300A-N8	300 $\pm$ 25%	0.45	
BMB-1E-0470A-N8	470 $\pm$ 25%	0.55	
BMB-1E-0600A-N8	600 $\pm$ 25%	0.65	200
BMB-1E-1000A-N8	1000 $\pm$ 25%	1.00	150
BMB-1J-0030A-N8	30 $\pm$ 25%	0.20	400
BMB-1J-0040A-N8	40 $\pm$ 25%		300
BMB-1J-0060A-N8	60 $\pm$ 25%		
BMB-1J-0080A-N8	80 $\pm$ 25%	0.40	200
BMB-1J-0100A-N8	100 $\pm$ 25%		
BMB-1J-0120A-N8	120 $\pm$ 25%		
BMB-1J-0180A-N8	180 $\pm$ 25%		
BMB-1J-0220A-N8	220 $\pm$ 25%	0.50	200
BMB-1J-0240A-N8	240 $\pm$ 25%		
BMB-1J-0300A-N8	300 $\pm$ 25%		
BMB-1J-0450A-N8	450 $\pm$ 25%	0.70	150
BMB-1J-0600A-N8	600 $\pm$ 25%		
BMB-1J-1000A-N8	1000 $\pm$ 25%	1.00	100
BMB-1J-1200A-N8	1200 $\pm$ 25%		200
BMB-1J-1500A-N8	1500 $\pm$ 25%		

Electrical Performance (continued)

Part Number	Impedance ( $\Omega$ ) at 100MHz * 50MHz * 30MHz	DC Resistance ( $\Omega$ ) maximum	Rated Current (mA) maximum
BMB-2A-0010A-N8	10 $\pm$ 25%	0.10	600
BMB-2A-0017A-N8	17 $\pm$ 25%		500
BMB-2A-0030A-N8	30 $\pm$ 25%		
BMB-2A-0080A-N4	80 $\pm$ 25%	0.30	400
BMB-2A-0120A-N4	120 $\pm$ 25%		300
BMB-2A-0120A-N8			
BMB-2A-0150A-N8	150 $\pm$ 25%	0.50	250
BMB-2A-0220A-N4	220 $\pm$ 25%		
BMB-2A-0300A-N8	300 $\pm$ 25%		
BMB-2A-0400A-N8	400 $\pm$ 25%	0.60	200
BMB-2A-0600A-N4	600 $\pm$ 25%		
BMB-2A-0600A-N8			
BMB-2A-1000A-N4	1000 $\pm$ 25%	0.80	100
BMB-2A-1200A-N4	1200 $\pm$ 25%		
BMB-2A-1500A-N4	1500 $\pm$ 25%	1.00	
BMB-2A-2000A-N4	2000 $\pm$ 25%		
BMB-2A-2200A-N4	2200 $\pm$ 25%		
BMB-2A-2700A-N4	2700 $\pm$ 25%	1.50	
BMB-2B-0026A-N8	26 $\pm$ 25%	0.20	600
BMB-2B-0031A-N8	31 $\pm$ 25%		500
BMB-2B-0050A-N8	50 $\pm$ 25%		
BMB-2B-0070A-N8	70 $\pm$ 25%		
BMB-2B-0090A-N8	90 $\pm$ 25%	0.30	400
BMB-2B-0120A-N4	120 $\pm$ 25%		
BMB-2B-0150A-N4	150 $\pm$ 25%		
BMB-2B-0220A-N4	220 $\pm$ 25%	0.40	300
BMB-2B-0400A-N4	400 $\pm$ 25%		
BMB-2B-0500A-N8	500 $\pm$ 25%		
BMB-2B-0600A-N8	600 $\pm$ 25%	0.50	250
BMB-2B-1200A-N8	*1200 $\pm$ 25%	0.70	200
BMB-2B-1500A-N8	*1500 $\pm$ 25%	1.00	
BMB-2B-2000A-N8	**2000 $\pm$ 25%	1.50	150

Operating temperature range - -55 ~ +125°C

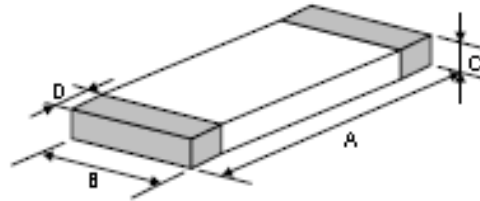
Temperature should be less than 25°C when rated current is applied.

Storage:

Temperature Range: -40 ~ +85°C

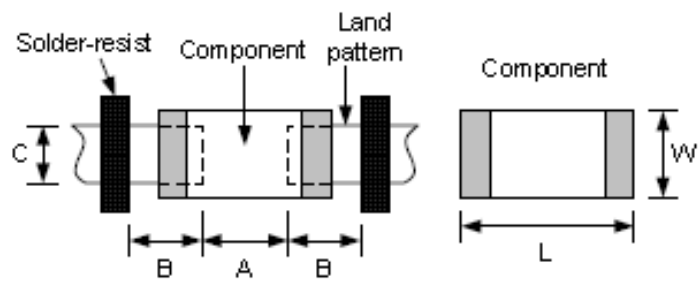
Humidity: Less than 75% RH

Product Dimensions



Size	A (mm)	B (mm)	C (mm)	D (mm)
0402	1.0 ±0.10	0.5 ±0.10	0.5 ±0.10	0.25 ±0.10
0603	1.6 ±0.15	0.8 ±0.15	0.8 ±0.15	0.3 ±0.20
0805	2.0 ±0.20	1.2 ±0.20	0.9 ±0.20	0.5 ±0.30
1206	3.2 ±0.20	1.6 ±0.20	1.1 ±0.20	0.5 ±0.30

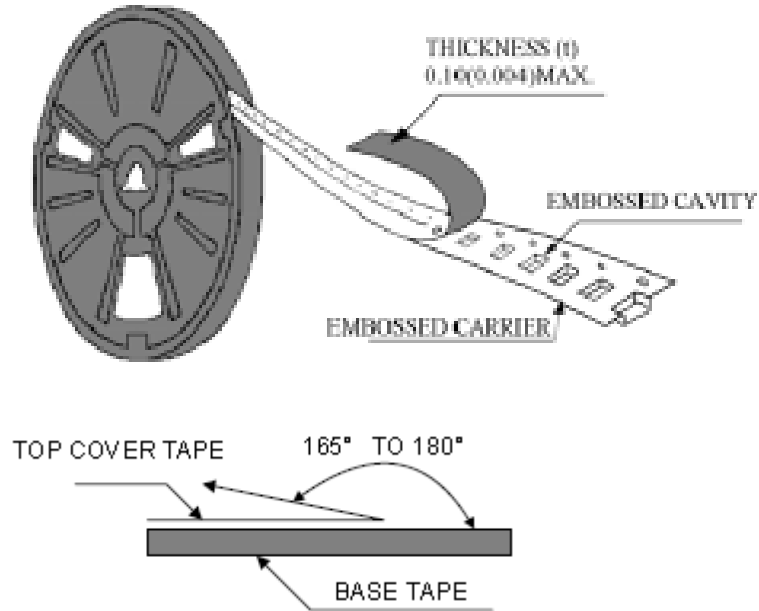
Recommended PCB Layout



Size	0402	0603	0805	1206	
Component	L	1.0	1.6	2.0	3.2
	W	0.5	0.8	1.2	1.6
A	0.45 ~ 0.55	0.6 ~ 0.8	0.8 ~ 1.2	1.8 ~ 2.2	
B	0.40 ~ 0.50	0.6 ~ 0.8	0.8 ~ 1.2	1.1 ~ 1.6	
C	0.40 ~ 0.50	0.6 ~ 0.8	0.9 ~ 1.6	0.9 ~ 1.6	

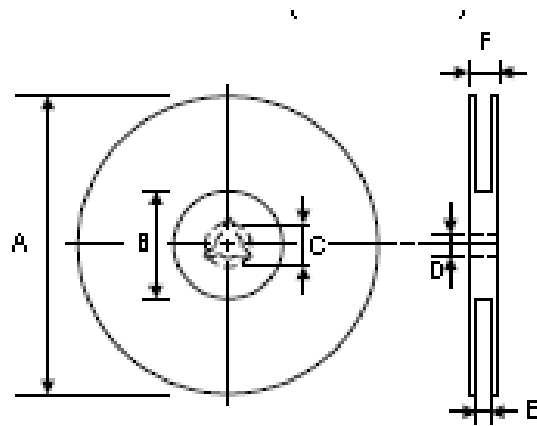
Packaging

Peel off force:

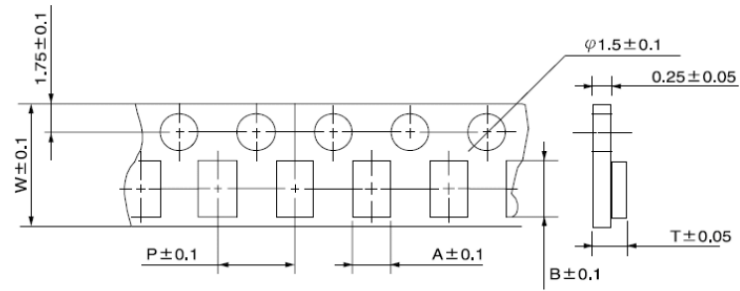


The force for peeling off cover tape is 10 grams in the direction shown

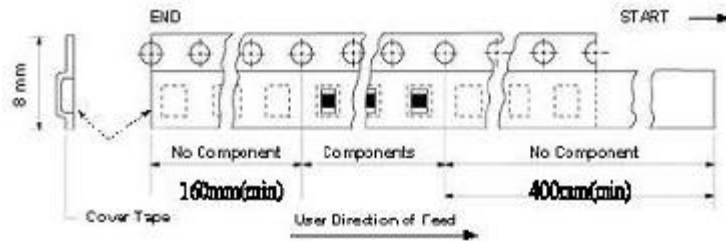
Dimensions (mm)



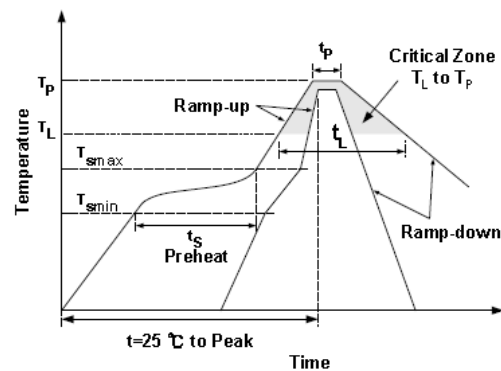
A	B	C	D	E	F
178 ±1	60 +0.5 -0.1	--	13 ±0.2	9 ±0.5	12 ±0.5



Size	A	B	W	P	T	Chips / Reel
0402	0.6	1.1	8	2	1.0	10000
0603	1.1	1.9	8	4	1.1	4000
0805	1.5	2.3	8	4	1.3	4000
1206	1.9	3.5	8	4	1.5	3000



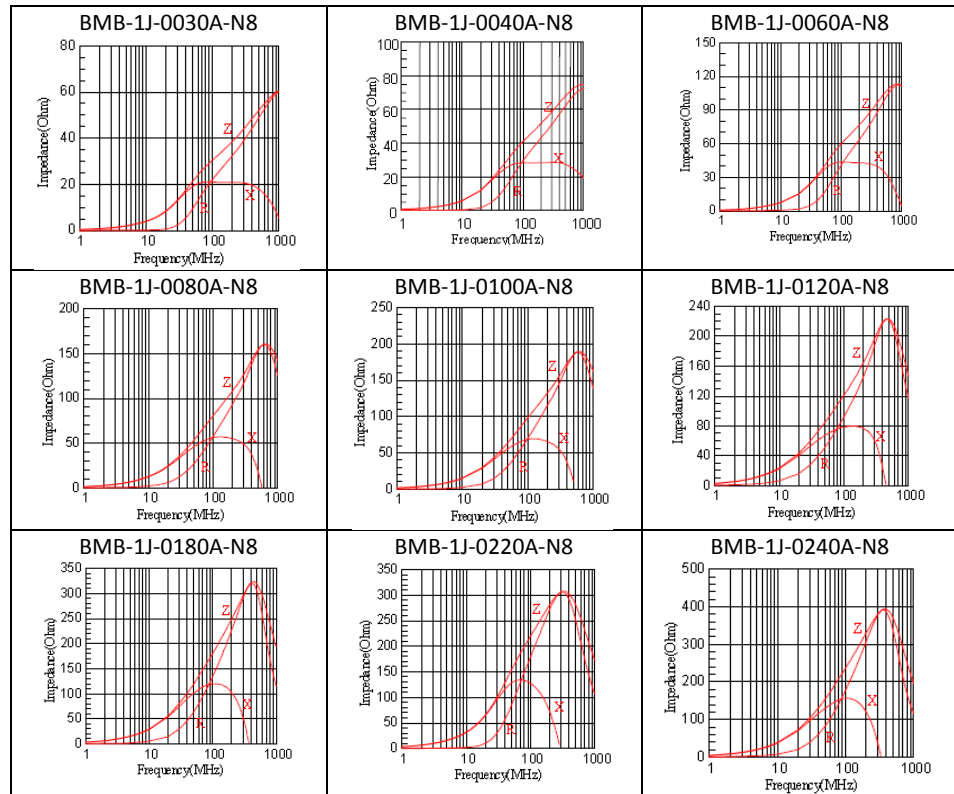
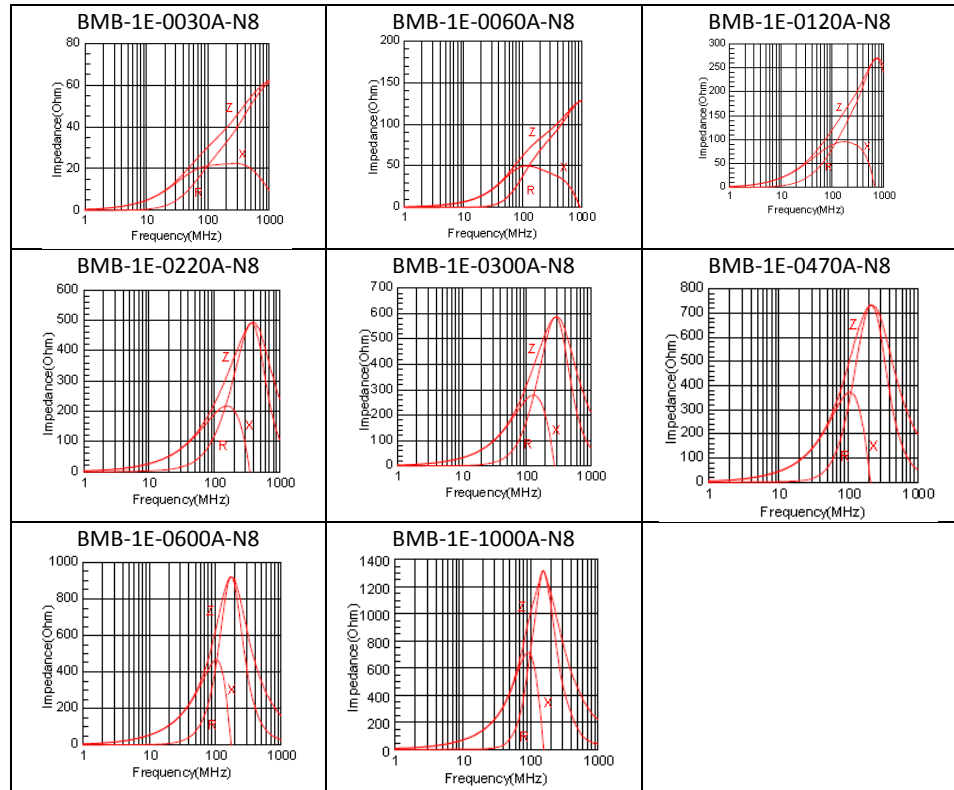
## Recommended Reflow Solder Profile

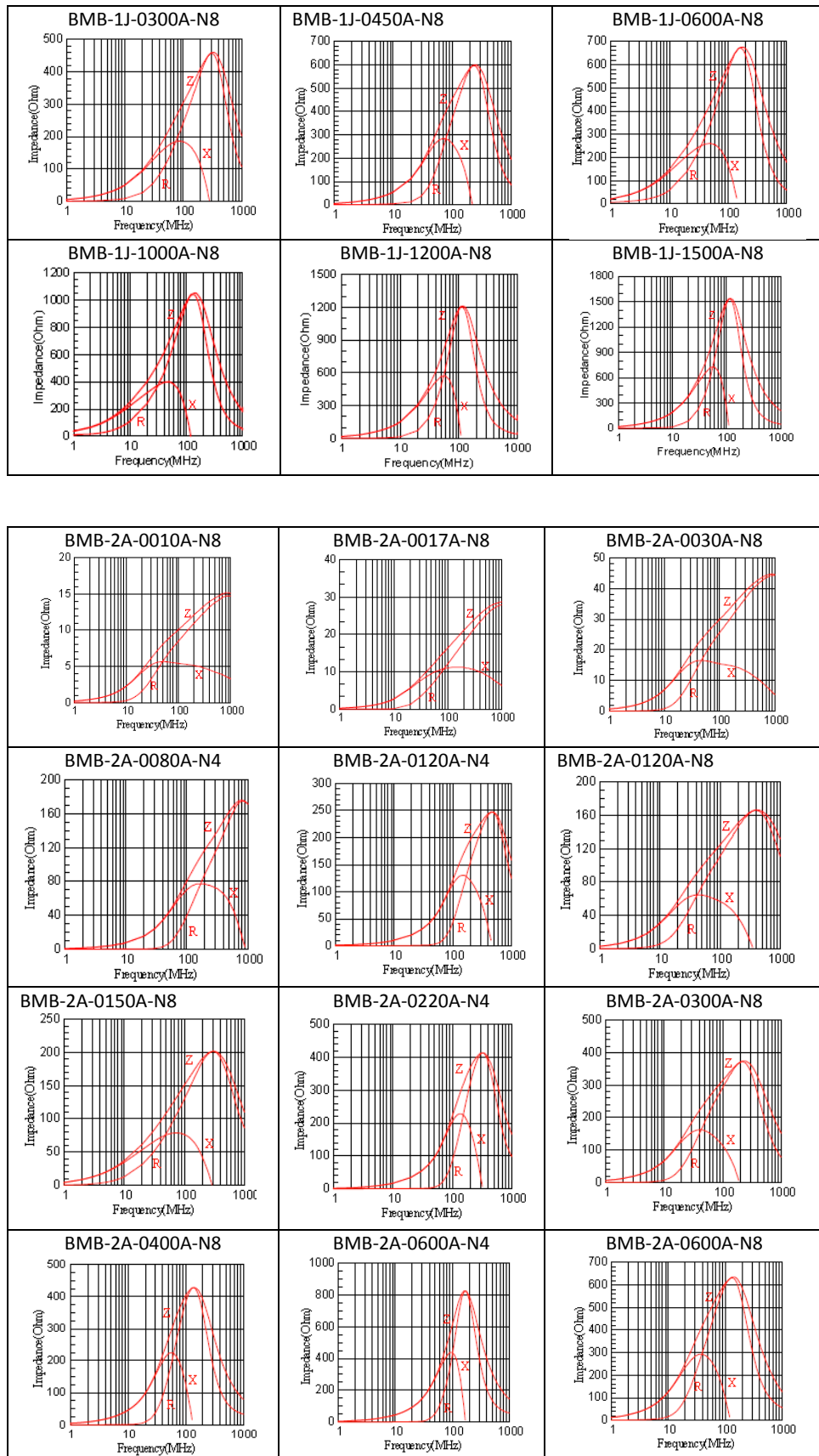


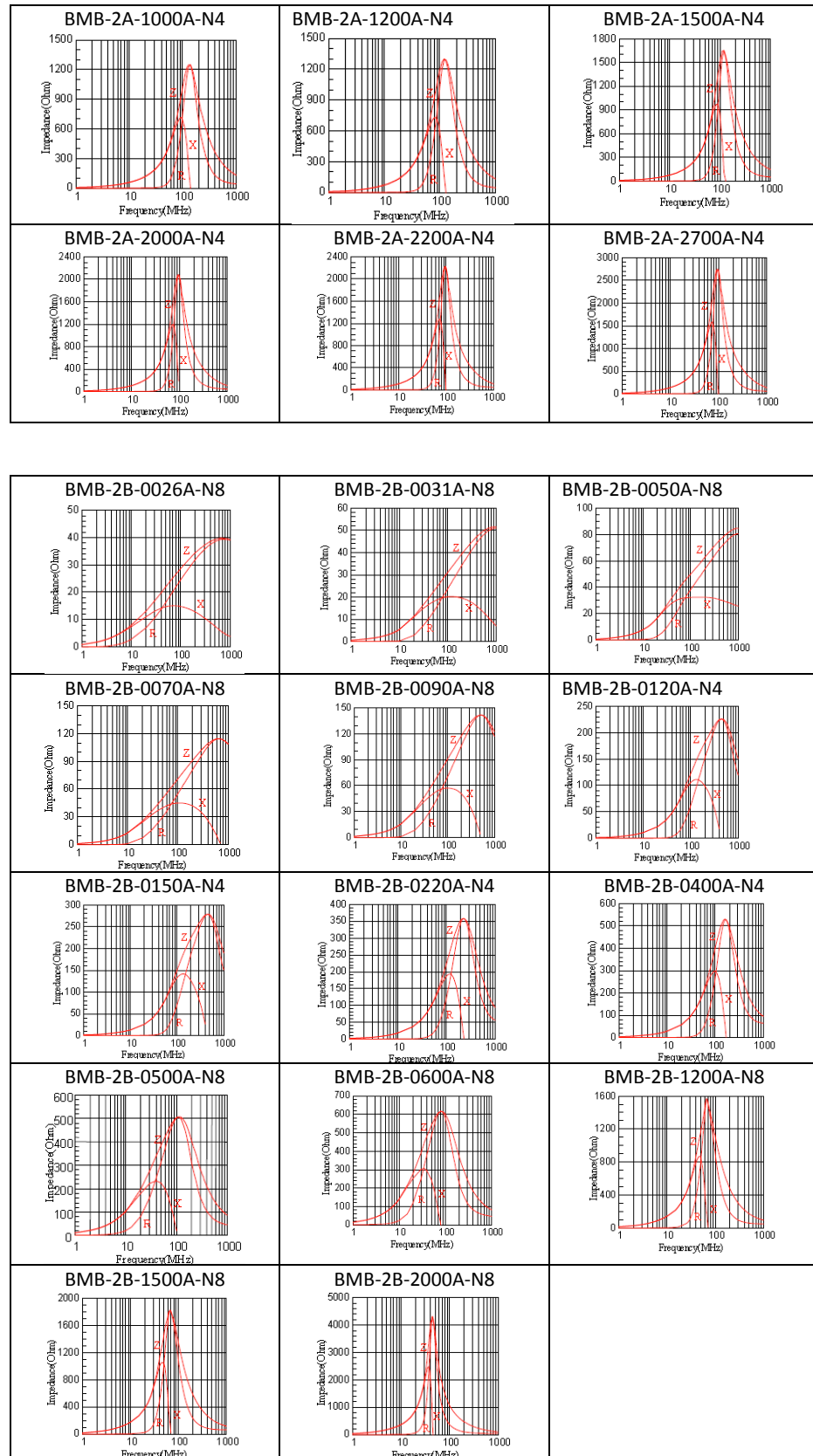
Profile Feature		Pb Free
Preheat	ts	60 ~ 180 seconds
	Tsmin	150°C
	Tsmax	200°C
Average Ramp up rate (Tsmax to Tp)		3°C/second max.
Time main above	Temperature (TL)	217°C
	Time (tL)	60 ~ 150 seconds
Peak Temperature (Tp)		250 ~ 260°C
Time within 5°C of actual peak temperature ((tp)		10 seconds
Ramp down rate		6°C/second max.
Time 25°C to peak temperature		8 minutes max.



Typical Characteristic Curves (T=25°C)







## Type BMB-B Series

### Key Features

Effective EMI Protection

Wide Frequency Characteristics

High soldering Heat Resistance

Various Package Sizes Available

Suited to a Variety of Applications

Terminal finish matte Sn over Cu/Ni underplate



These beads are designed for high speed applications. The BMB-B Series will minimise the attenuation of the signal wave form due to its sharp impedance characteristics. This series is offered in 04:02, 06:03 and 08:05 package sizes

### Electrical Performance

Part Number	Impedance ( $\Omega$ ) at 100MHz	DC Resistance ( $\Omega$ ) maximum	Rated Current (mA) maximum
BMB-1E-0022B-N7	22 $\pm$ 25%	0.20	300
BMB-1E-0047B-N7	47 $\pm$ 25%	0.35	
BMB-1E-0075B-N7	75 $\pm$ 25%	0.40	
BMB-1E-0120B-N7	120 $\pm$ 25%		
BMB-1E-0220B-N7	220 $\pm$ 25%	0.60	
BMB-1E-0300B-N7	300 $\pm$ 25%	0.80	
BMB-1E-0022B-N7	22 $\pm$ 25%	0.20	
BMB-1J-0030B-N7	30 $\pm$ 25%	0.30	250
BMB-1J-0070B-N7	70 $\pm$ 25%	0.40	200
BMB-1J-0120B-N7	120 $\pm$ 25%		
BMB-1J-0240B-N7	240 $\pm$ 25%		
BMB-1J-0300B-N7	300 $\pm$ 25%	0.50	100
BMB-1J-0420B-N7	420 $\pm$ 25%		200
BMB-1J-0600B-N7	600 $\pm$ 25%	0.60	100
BMB-2A-0007B-N7	7 $\pm$ 25%	0.10	300
BMB-2A-0030B-N7	30 $\pm$ 25%	0.20	
BMB-2A-0070B-N7	70 $\pm$ 25%	0.40	
BMB-2A-0100B-N7	100 $\pm$ 25%		
BMB-2A-0120B-N7	120 $\pm$ 25%	0.50	
BMB-2A-0200B-N7	200 $\pm$ 25%		
BMB-2A-0300B-N7	300 $\pm$ 25%		
BMB-2A-0450B-N7	450 $\pm$ 25%		

Electrical Performance (continued)

Part Number	Impedance ( $\Omega$ ) at 100MHz * 50MHz * 30MHz	DC Resistance ( $\Omega$ ) maximum	Rated Current (mA) maximum
BMB-2A-0600B-N7	600 $\pm$ 25%	0.60	200
BMB-2A-0750B-N7	750 $\pm$ 25%	0.70	
BMB-2A-1000B-N7	1000 $\pm$ 25%	0.80	

Operating temperature range - -55 ~ +125°C

Temperature should be less than 25°C when rated current is applied.

Storage:

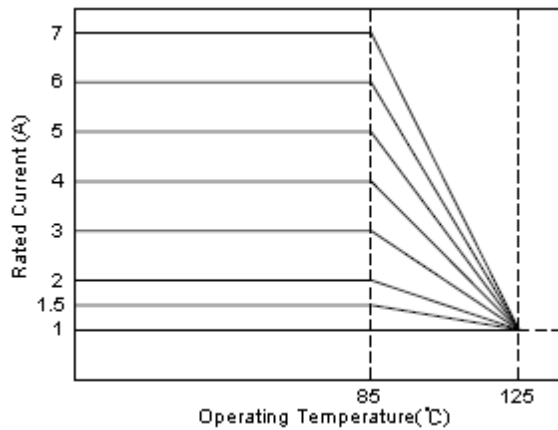
Temperature Range: -40 ~ +85°C

Humidity: Less than 75% RH

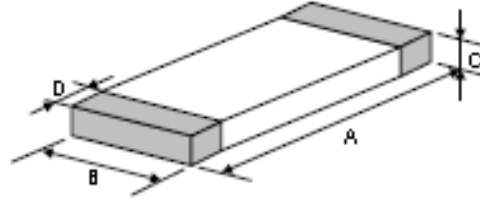
Current Derating

In operating temperatures exceeding +85°C derating of current is necessary for chip ferrite beads for which rated current is 1.5A or over.

Please apply the derating curve shown below according to the operating temperature

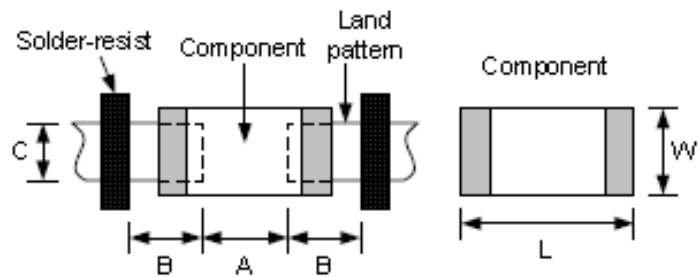


Product Dimensions



Size	A (mm)	B (mm)	C (mm)	D (mm)
0402	1.0 ±0.10	0.5 ±0.10	0.5 ±0.10	0.25 ±0.10
0603	1.6 ±0.15	0.8 ±0.15	0.8 ±0.15	0.3 ±0.20
0805	2.0 ±0.20	1.2 ±0.20	0.9 ±0.20	0.5 ±0.30

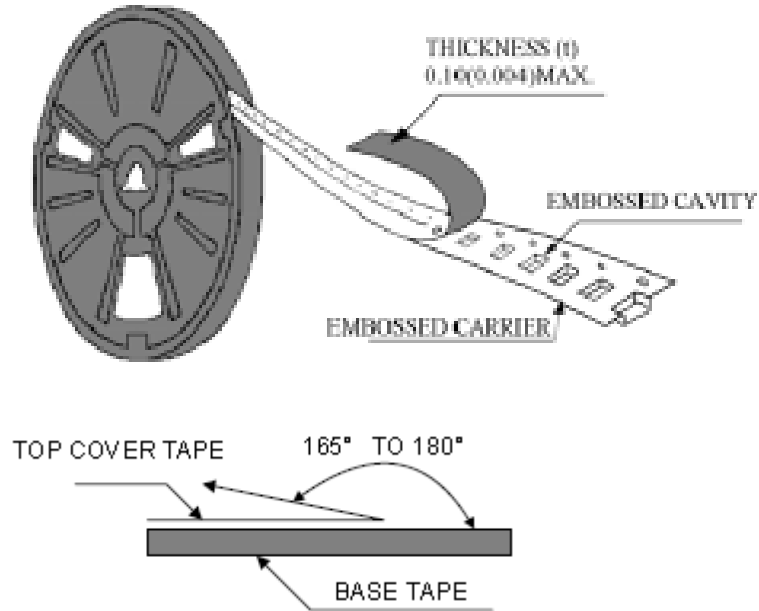
Recommended PCB Layout



Size	0402	0603	0805
Component	L	1.0	2.0
	W	0.5	1.2
A	0.45 ~ 0.55	0.6 ~ 0.8	0.8 ~ 1.2
B	0.40 ~ 0.50	0.6 ~ 0.8	0.8 ~ 1.2
C	0.40 ~ 0.50	0.6 ~ 0.8	0.9 ~ 1.6

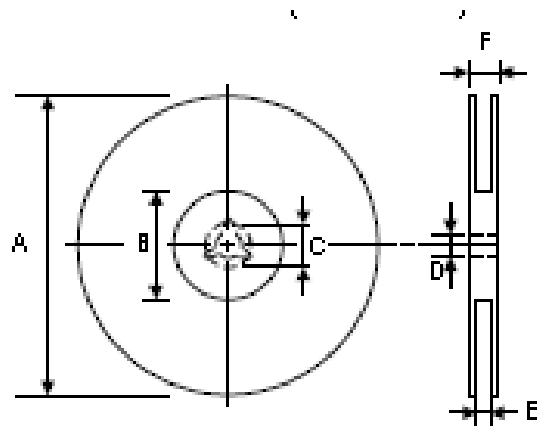
Packaging

Peel off force:

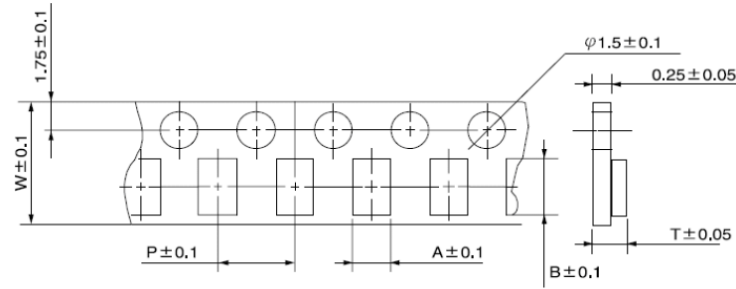


The force for peeling off cover tape is 10 grams in the direction shown

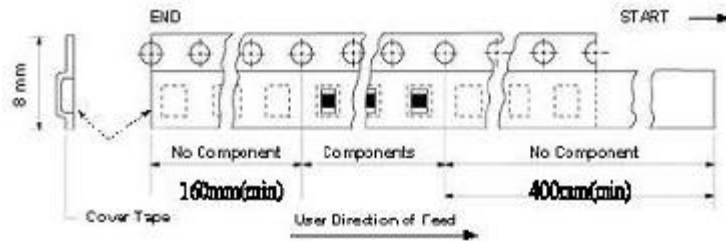
Dimensions (mm)



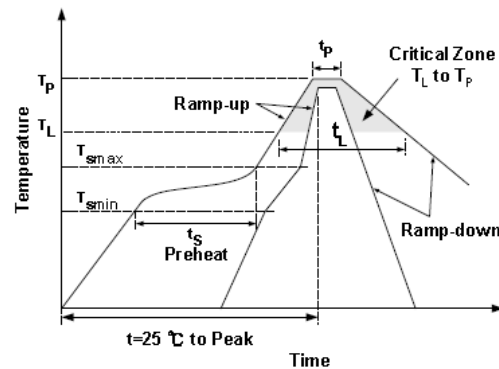
A	B	C	D	E	F
178 ±1	60 +0.5 -0.1	--	13 ±0.2	9 ±0.5	12 ±0.5



Size	A	B	W	P	T	Chips / Reel
0402	0.6	1.1	8	2	1.0	10000
0603	1.1	1.9	8	4	1.1	4000
0805	1.5	2.3	8	4	1.3	4000
1206	1.9	3.5	8	4	1.5	3000



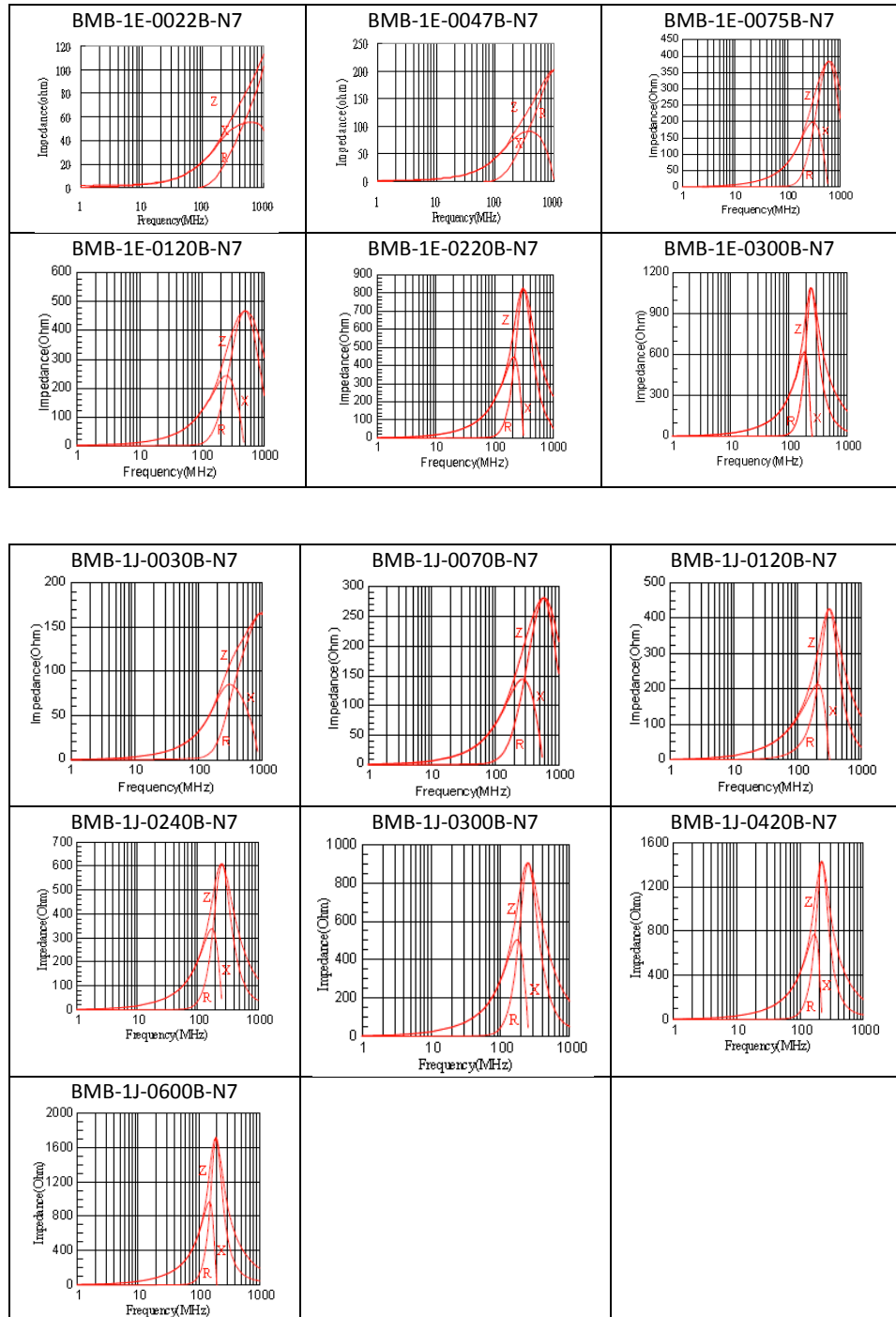
## Recommended Reflow Solder Profile

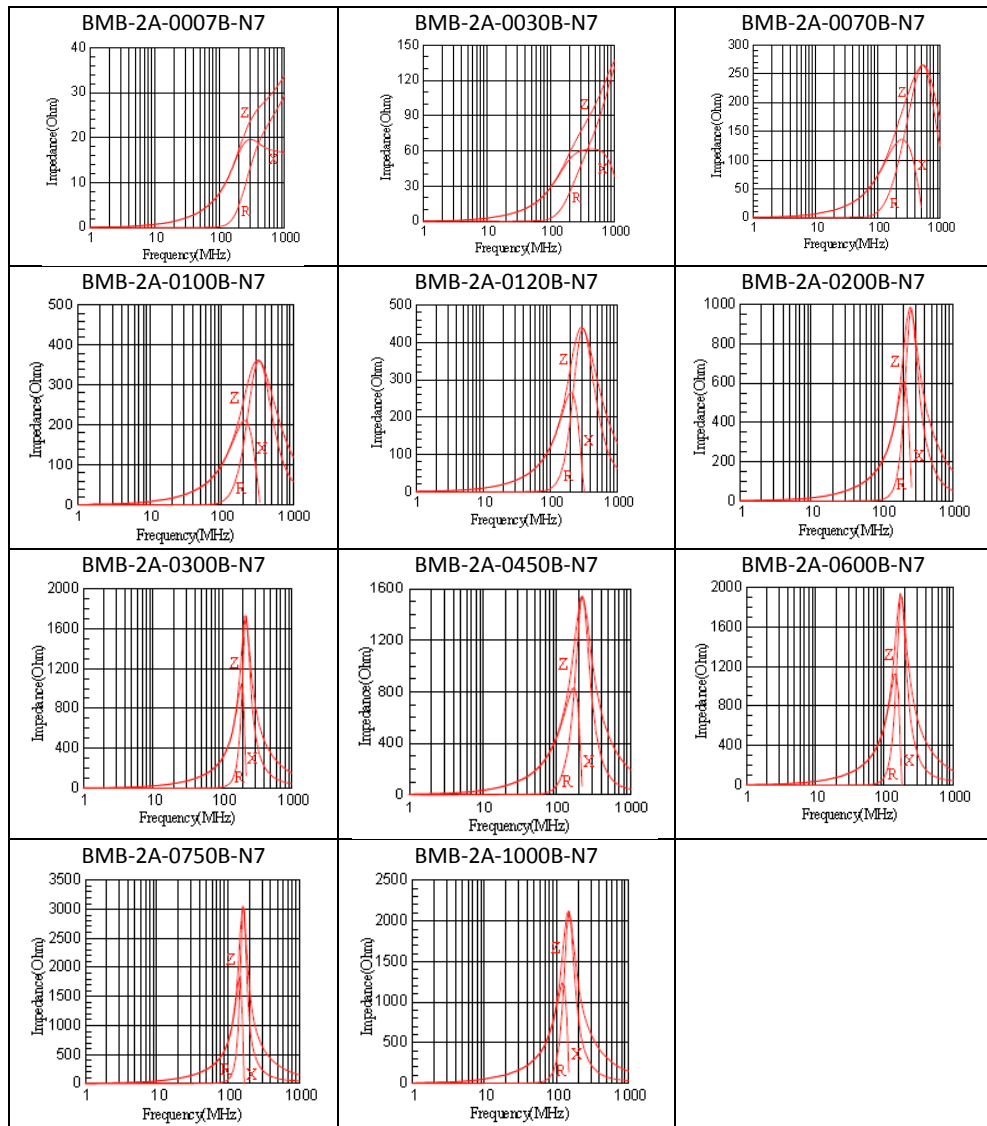


Profile Feature		Pb Free
Preheat	ts	60 ~ 180 seconds
	Tsmin	150°C
	Tsmax	200°C
Average Ramp up rate (Tsmax to Tp)		3°C/second max.
Time main above	Temperature (TL)	217°C
	Time (tL)	60 ~ 150 seconds
Peak Temperature (Tp)		250 ~ 260°C
Time within 5°C of actual peak temperature ((tp)		10 seconds
Ramp down rate		6°C/second max.
Time 25°C to peak temperature		8 minutes max.



Typical Characteristic Curves (T=25°C)





## Type BMB-L Series

### Type BMB-L Series



The L series exhibits a low DC resistance across a wide range of impedance with a higher current capability than the A series. These are suitable for use on signal delay lines handling larger current and are available in 06:03 and 08:05 packages according to impedance requirements.

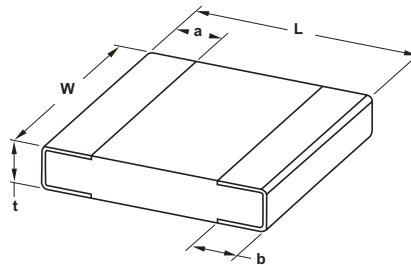
### Key Features

- Low DC Resistance
- High Current Capability
- 0603 and 0805 Package Sizes
- Suited to Signal Delay Line Applications
- Designed for Telecommunications

### Specifications

Package Size	Part Number	Impedance (ohms) at 100MHz (±25%)	DC Resistance (ohms) maximum	Rated Current (mA) maximum
0603	BMB-1J-0030L-N2	30	0.05	750
	BMB-1J-0060L-N2	60	0.10	650
	BMB-1J-0120L-N2	120	0.15	550
	BMB-1J-0300L-N2	300	0.25	500
	BMB-1J-0330L-N8	330		
	BMB-1J-0470L-N2	470	0.30	450
	BMB-1J-0600L-N2	600	0.35	350
	BMB-1J-1000L-N2	1000	0.40	300
0805	BMB-2A-0030L-N2	30	0.05	1000
	BMB-2A-0060L-N2	60		850
	BMB-2A-0120L-N2	120	0.10	700
	BMB-2A-0300L-N2	300	0.15	600
	BMB-2A-0470L-N2	470	0.20	500
	BMB-2A-0600L-N2	600	0.25	400
	BMB-2A-1000L-N2	1000	0.30	350
	BMB-2A-1500L-N2	1500	0.35	

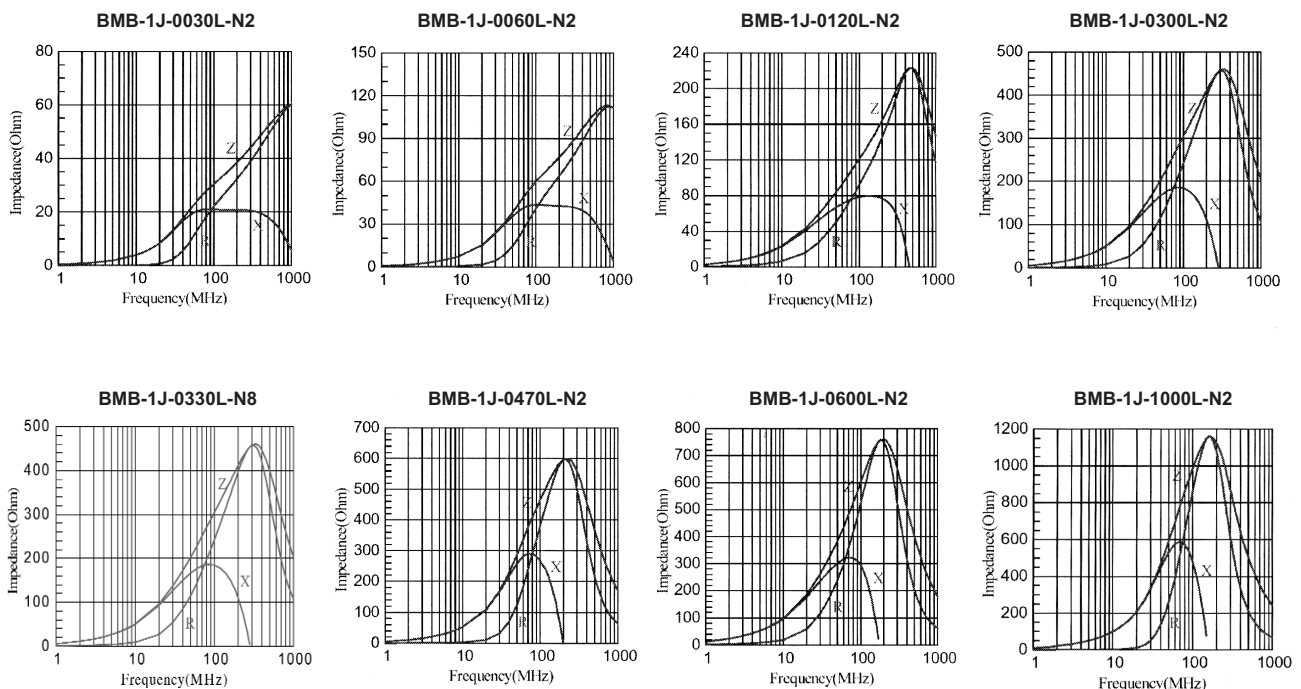
### Chip Dimensions



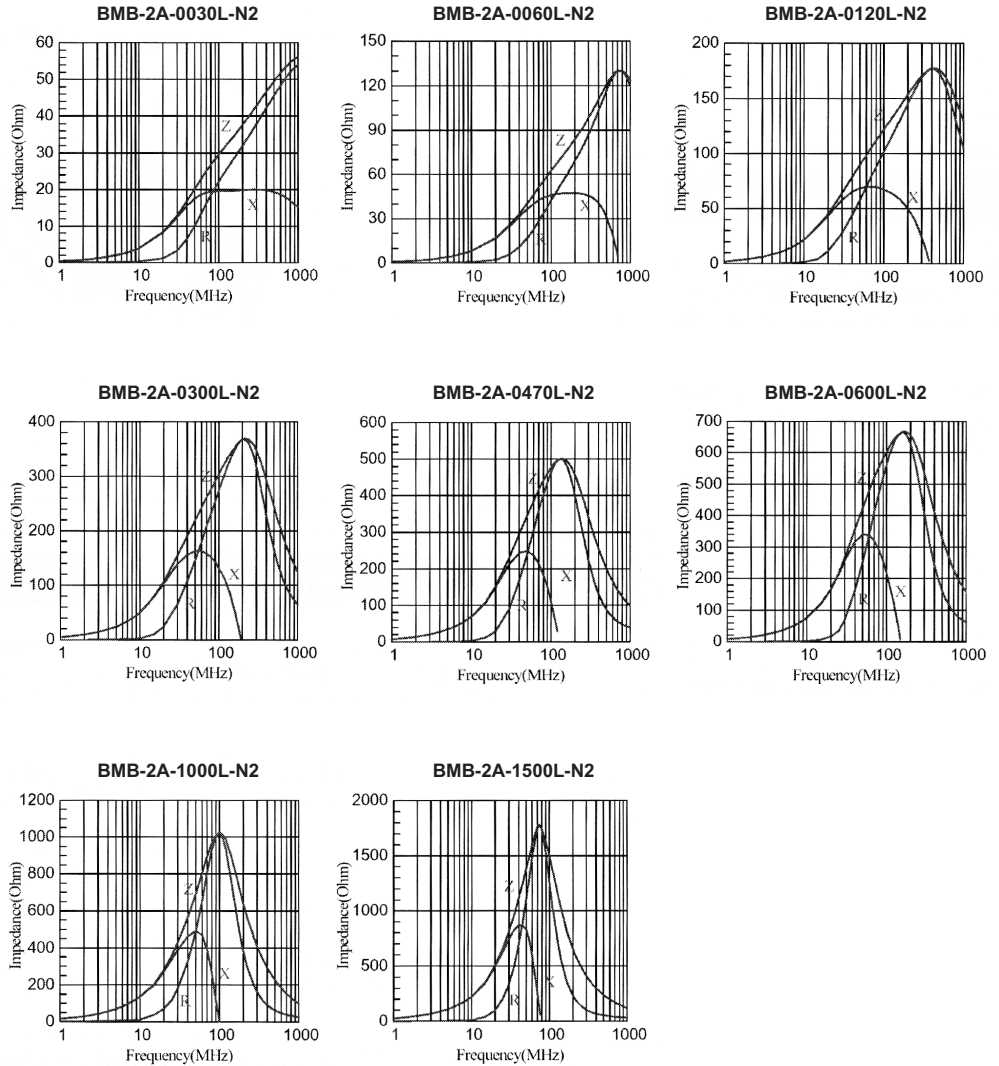
Size	L	W	t	a
0603	1.6 ±0.15	0.8 ±0.15	0.8 ±0.15	0.3 ±0.20
0805	2.0 ±0.20	1.2 ±0.20	0.9 ±0.20	0.5 ±0.30

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

### Characteristic Curves



**Characteristic Curves (continued)**



## Type BMB-P Series

### Key Features

Effective EMI Protection

Low DC Resistance

High Current Handling

Various Package Sizes Available

Inorganic Material Construction

Suited to Noise Filtering applications

Terminal finish matte Sn over Cu/Ni underplate



The P Series of multilayer beads is suitable for use in high current circuits due to its low dc resistance. It can match power lines to a maximum of 6 amps. The P series is available in 0402, 0603, 0805 and 1206 package sizes

### Electrical Performance

Part Number	Impedance ( $\Omega$ ) at 100MHz	DC Resistance ( $\Omega$ ) maximum	Rated Current (mA) maximum
BMB-1E-0010P-N8	10 $\pm$ 25%	0.05	1000
BMB-1E-0120P-N8	120 $\pm$ 25%	0.095	1500
BMB-1E-0220P-N8	220 $\pm$ 25%	0.28	700
BMB-1J-0010P-N8	10 $\pm$ 25%	0.01	5000
BMB-1J-0025P-N8	25 $\pm$ 25%	0.03	3000
BMB-1J-0030P-N8	30 $\pm$ 25%		
BMB-1J-0060P-N8	60 $\pm$ 25%	0.04	2500
BMB-1J-0120P-N8	120 $\pm$ 25%	0.05	
BMB-1J-0150P-N8	150 $\pm$ 25%	0.10	2000
BMB-1J-0220P-N8	220 $\pm$ 25%		
BMB-1J-0300P-N8	300 $\pm$ 25%		
BMB-1J-0470P-N8	470 $\pm$ 25%	0.15	1500
BMB-1J-0600P-N8	600 $\pm$ 25%	0.20	
BMB-2A-0010P-N8	10 $\pm$ 25%	0.01	6000
BMB-2A-0020P-N8	20 $\pm$ 25%	0.03	4000
BMB-2A-0030P-N8	30 $\pm$ 25%	0.015	3000
BMB-2A-0060P-N8	60 $\pm$ 25%	0.025	
BMB-2A-0080P-N8	80 $\pm$ 25%	0.04	5000
BMB-2A-0120P-N8	120 $\pm$ 25%		3000
BMB-2A-0150P-N8	150 $\pm$ 25%		
BMB-2A-0220P-N8	220 $\pm$ 25%		
BMB-2A-0300P-N8	300 $\pm$ 25%	0.07	2000
BMB-2A-0470P-N8	470 $\pm$ 25%	0.1	
BMB-2A-0600P-N8	600 $\pm$ 25%		

Electrical Performance (continued)

Part Number	Impedance ( $\Omega$ ) at 100MHz * 50MHz * 30MHz	DC Resistance ( $\Omega$ ) maximum	Rated Current (mA) maximum
BMB-2B-0030P-N8	30 $\pm$ 25	0.03	4000
BMB-2B-0050P-N8	50 $\pm$ 25		
BMB-2B-0080P-N8	80 $\pm$ 25		
BMB-2B-0120P-N8	120 $\pm$ 25	0.04	3000
BMB-2B-0300P-N8	300 $\pm$ 25	0.06	2500
BMB-2B-0500P-N8	500 $\pm$ 25	0.07	2000

Operating temperature range - -55 ~ +125°C

Temperature should be less than 40°C when rated current is applied.

Storage:

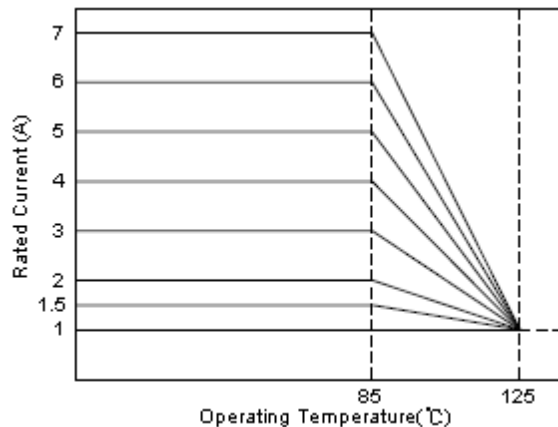
Temperature Range: -40 ~ +85°C

Humidity: Less than 75% RH

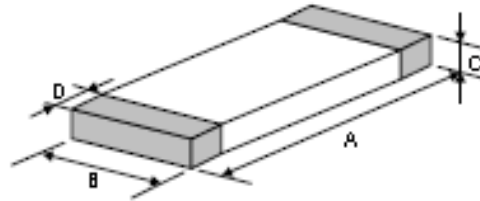
Current Derating

In operating temperatures exceeding +85°C derating of current is necessary for chip ferrite beads for which rated current is 1.5A or over.

Please apply the derating curve shown below according to the operating temperature

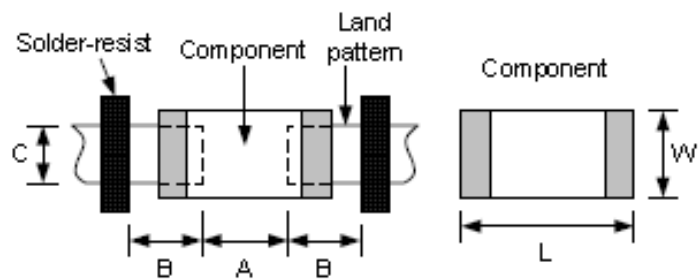


Product Dimensions



Size	A (mm)	B (mm)	C (mm)	D (mm)
0402	1.0 ±0.10	0.5 ±0.10	0.5 ±0.10	0.25 ±0.10
0603	1.6 ±0.15	0.8 ±0.15	0.8 ±0.15	0.3 ±0.20
0805	2.0 ±0.20	1.2 ±0.20	0.9 ±0.20	0.5 ±0.30
1206	3.2 ±0.20	1.6 ±0.20	1.1 ±0.20	0.5 ±0.30

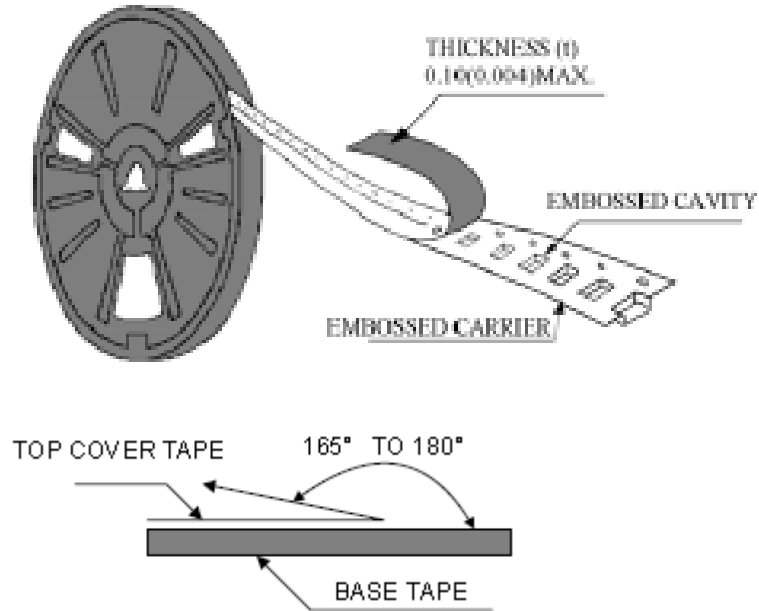
Recommended PCB Layout



Size	0402	0603	0805	1206	
Component	L	1.0	1.6	2.0	3.2
	W	0.5	0.8	1.2	1.6
A	0.45 ~ 0.55	0.6 ~ 0.8	0.8 ~ 1.2	1.8 ~ 2.2	
B	0.40 ~ 0.50	0.6 ~ 0.8	0.8 ~ 1.2	1.1 ~ 1.6	
C	0.40 ~ 0.50	0.6 ~ 0.8	0.9 ~ 1.6	0.9 ~ 1.6	

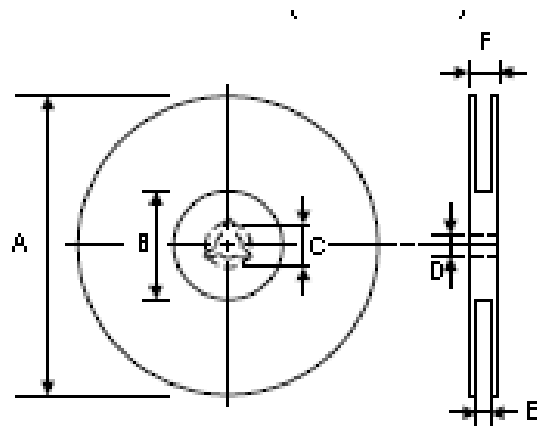
Packaging

Peel off force:



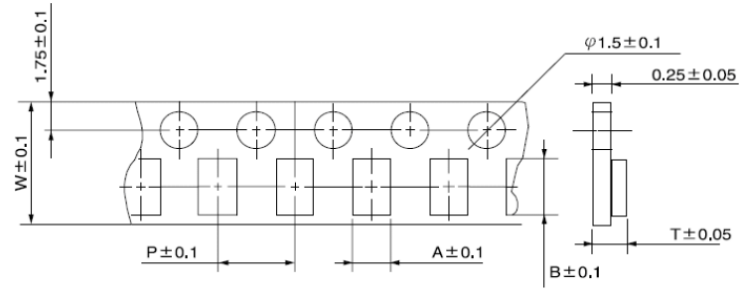
The force for peeling off cover tape is 10 grams in the direction shown

Dimensions (mm)

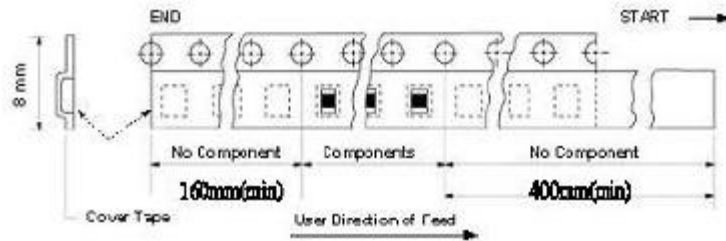


A	B	C	D	E	F
178 ±1	60 +0.5 -0.1	--	13 ±0.2	9 ±0.5	12 ±0.5

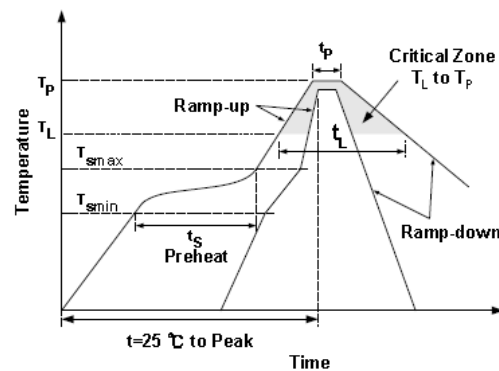




Size	A	B	W	P	T	Chips / Reel
0402	0.6	1.1	8	2	1.0	10000
0603	1.1	1.9	8	4	1.1	4000
0805	1.5	2.3	8	4	1.3	4000
1206	1.9	3.5	8	4	1.5	3000

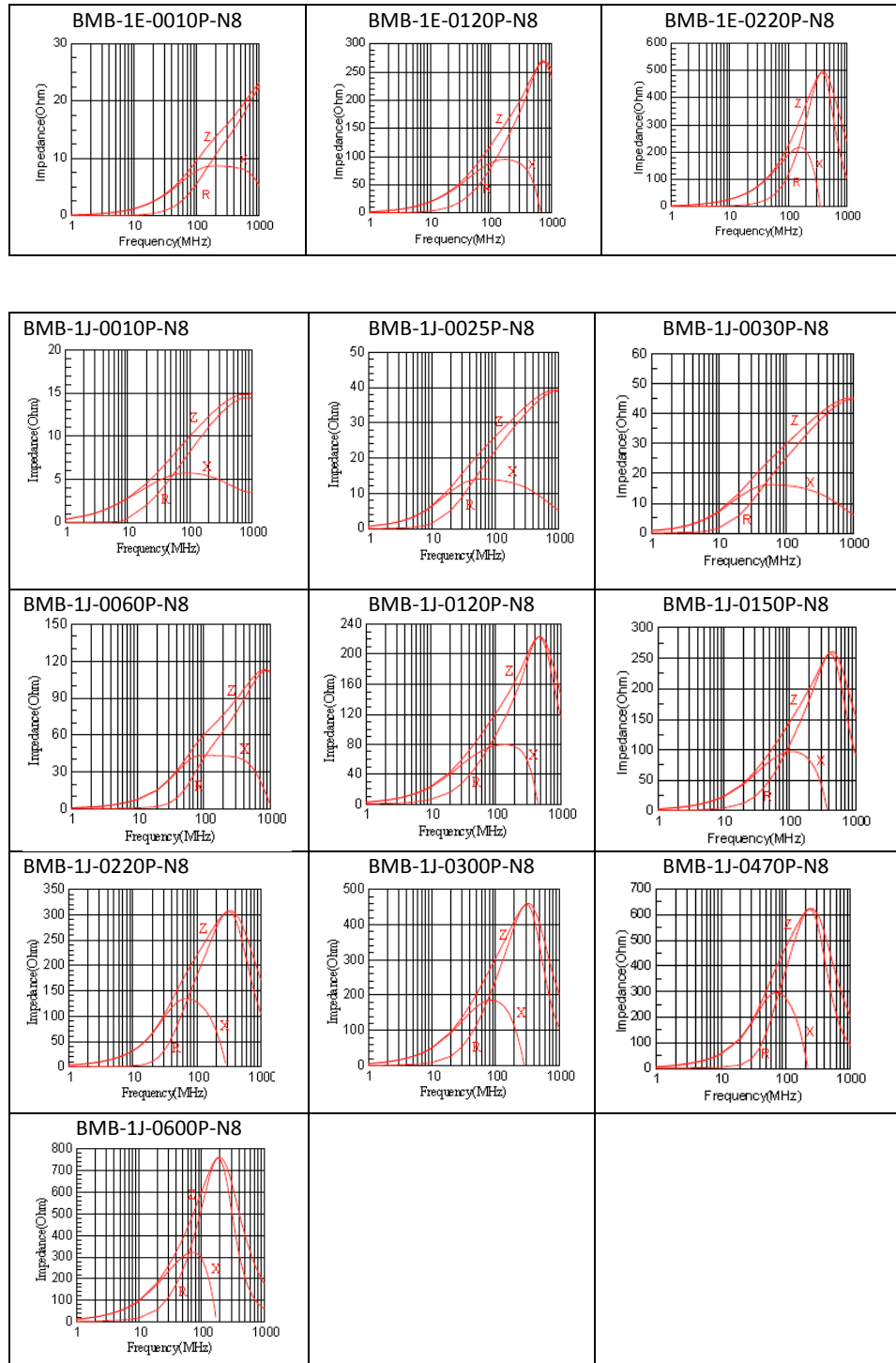


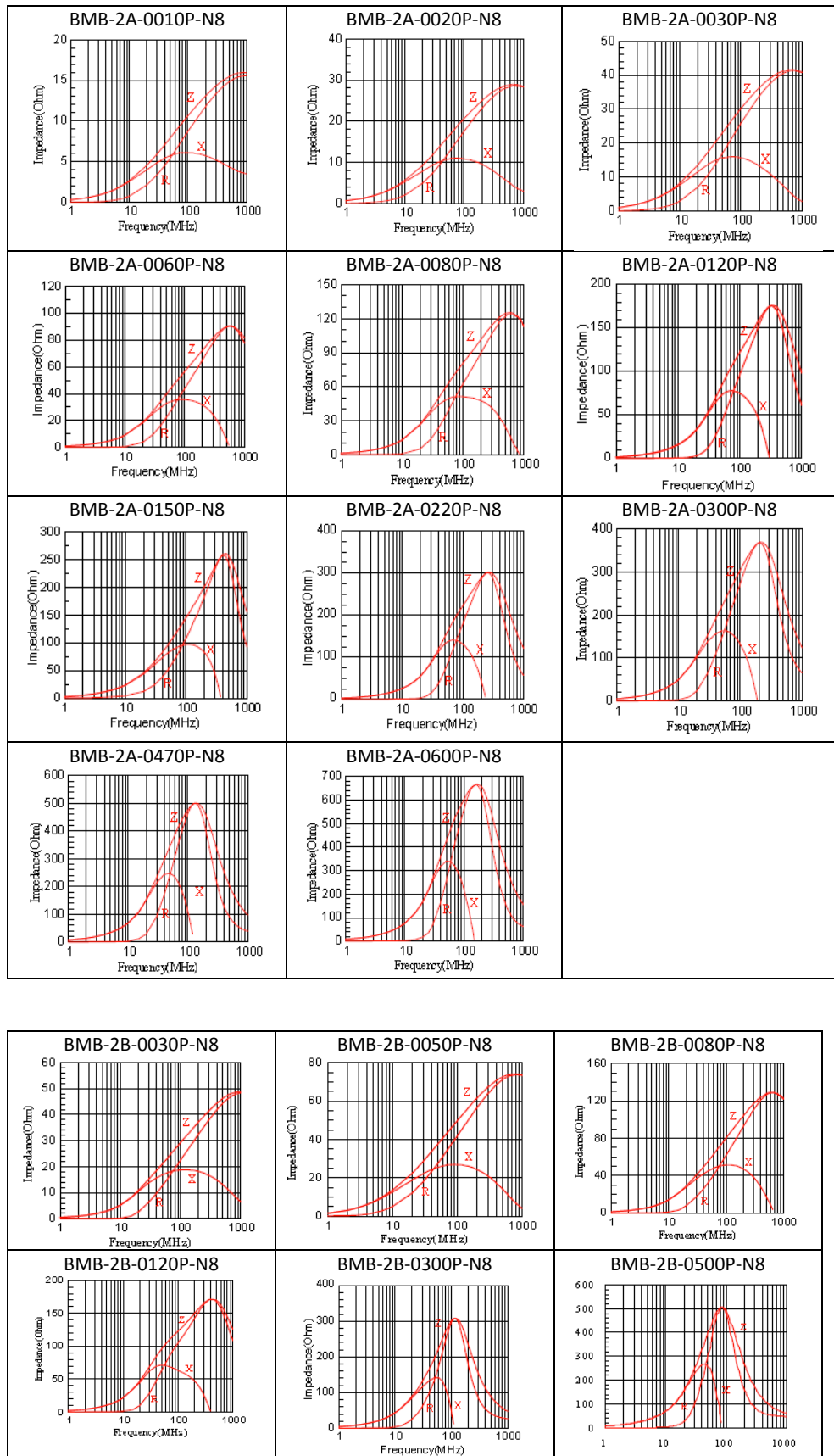
## Recommended Reflow Solder Profile



Profile Feature		Pb Free
Preheat	ts	60 ~ 180 seconds
	Tsmin	150°C
	Tsmax	200°C
Average Ramp up rate (Tsmax to Tp)		3°C/second max.
Time main above	Temperature (TL)	217°C
	Time (tL)	60 ~ 150 seconds
Peak Temperature (Tp)		250 ~ 260°C
Time within 5°C of actual peak temperature ((tp)		10 seconds
Ramp down rate		6°C/second max.
Time 25°C to peak temperature		8 minutes max.

Typical Characteristic Curves (T=25°C)





## Type BMB-S Series

### Key Features

Effective EMI Protection

Wide Frequency Characteristics

High soldering Heat Resistance

Suited to a Variety of Applications

Current Handling up to 6ADC

Terminal finish matte Sn over Cu/Ni underplate



The BMB-S Series of beads have a monolithic inorganic material construction that minimizes the effect of electromagnetic interference and are ideal for noise filtering of power line. This Series of chip beads have lower DC resistance than the BMB P Series and are more effective in power saving applications. Capable of handling currents up to 6A DC the BMB-S chip beads are designed for high current handling.

### Electrical Performance

Part Number	Impedance ( $\Omega$ ) at 100MHz	DC Resistance ( $\Omega$ ) maximum	Rated Current (mA) maximum
BMB-1J-0026S-N1	26 $\pm$ 25%	0.015	6000
BMB-1J-0030S-N1	30 $\pm$ 25%	0.01	5000
BMB-1J-0070S-N1	70 $\pm$ 25%	0.025	3000
BMB-1J-0120S-N1	120 $\pm$ 25%	0.04	3000
BMB-1J-0220S-N1	220 $\pm$ 25%	0.04	2500
BMB-1J-0330S-N1	330 $\pm$ 25%	0.085	1500

Operating temperature range - -55 ~ +125°C

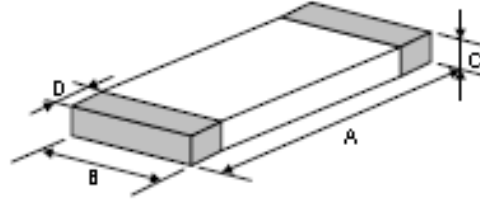
Temperature should be less than 25°C when rated current is applied.

Storage:

Temperature Range: -40 ~ +85°C

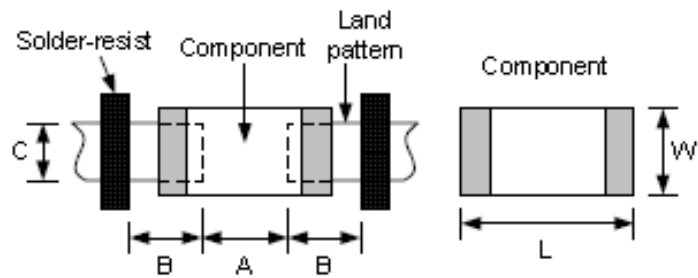
Humidity: Less than 75% RH

Product Dimensions



Size	A (mm)	B (mm)	C (mm)	D (mm)
0603	1.6 ±0.15	0.8 ±0.15	0.8 ±0.15	0.3 ±0.20

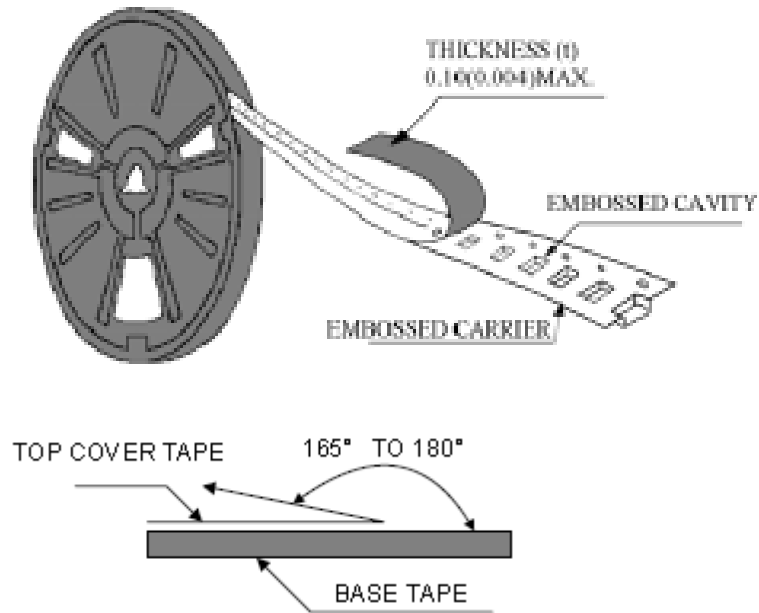
Recommended PCB Layout



Size	0603	
Component	L	1.6
	W	0.8
A	0.6 ~ 0.8	
B	0.6 ~ 0.8	
C	0.6 ~ 0.8	

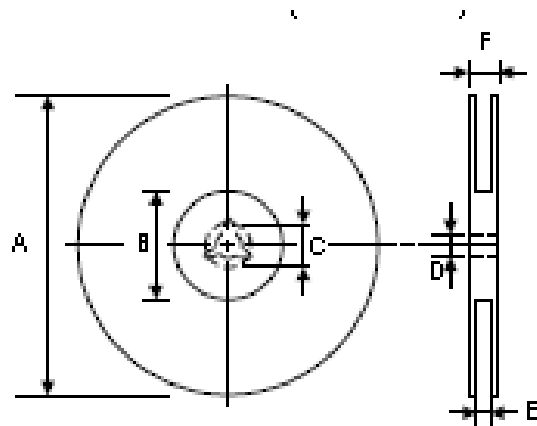
Packaging

Peel off force:

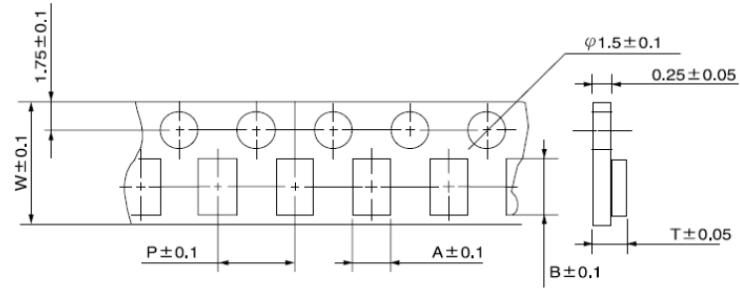


The force for peeling off cover tape is 10 grams in the direction shown

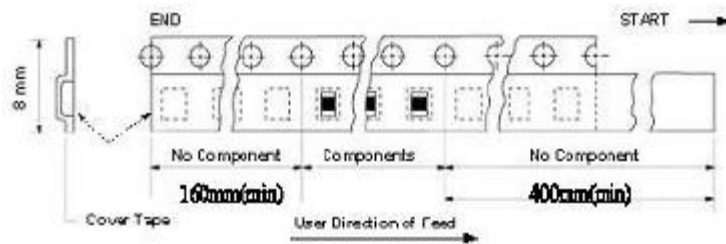
Dimensions (mm)



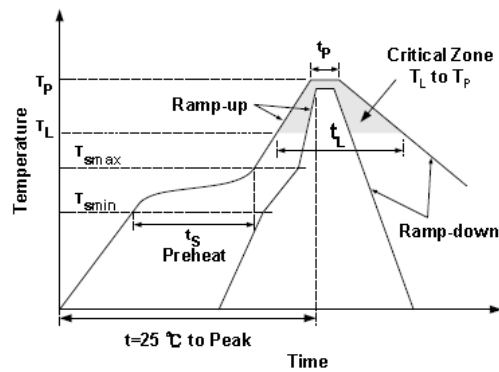
A	B	C	D	E	F
178 ±1	60 +0.5 -0.1	--	13 ±0.2	9 ±0.5	12 ±0.5



Size	A	B	W	P	T	Chips / Reel
0603	1.1	1.9	8	4	1.1	4000



## Recommended Reflow Solder Profile



Profile Feature		Pb Free
Preheat	$t_s$	60 ~ 180 seconds
	$T_{smin}$	150°C
	$T_{smax}$	200°C
Average Ramp up rate ( $T_{smax}$ to $T_p$ )		3°C/second max.
Time main above	Temperature ( $T_L$ )	217°C
	Time ( $t_L$ )	60 ~ 150 seconds
Peak Temperature ( $T_p$ )		250 ~ 260°C
Time within 5°C of actual peak temperature ( $t_p$ )		10 seconds
Ramp down rate		6°C/second max.
Time 25°C to peak temperature		8 minutes max.

Typical Characteristic Curves (T=25°C)

