

PRODUCT SPECIFICATIONS



BMDP252012 — SERIE

CUSTOMER'S PRODUCT NAME:

DATE: 2026.08

SPEC. NO: B-2608-18

THIS SPECIFICATION IS:

- ☐ FULLY ACCEPTED
- ☐ DENIED
- ☐ ACCEPTED UNDER THE FOLLOWING CONDITIONS:

SIGNATURE:

DATE:

NAME(PRINT):

TITLE:



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FACTORY: No. 9 Yuanshu Road, Fuyang District, Hangzhou City, Zhejiang Province.

TEL: 0571-63465859

FAX: 0571-63465859

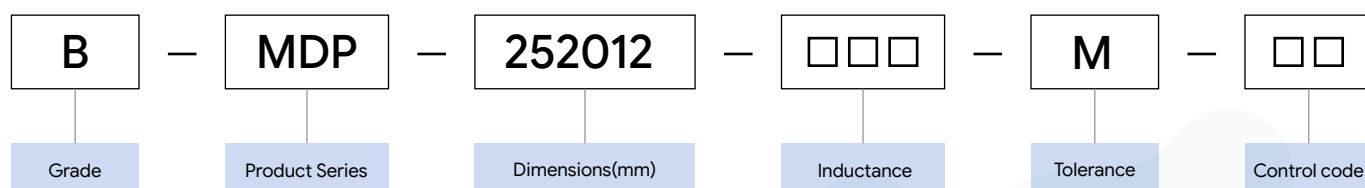
① Features

-  Closed magnetic circuit design reduces leakage flux.
-  Using thermal spraying technology, the surface of the inductor is compact
-  Low loss alloy powder die casting
-  low DC resistance

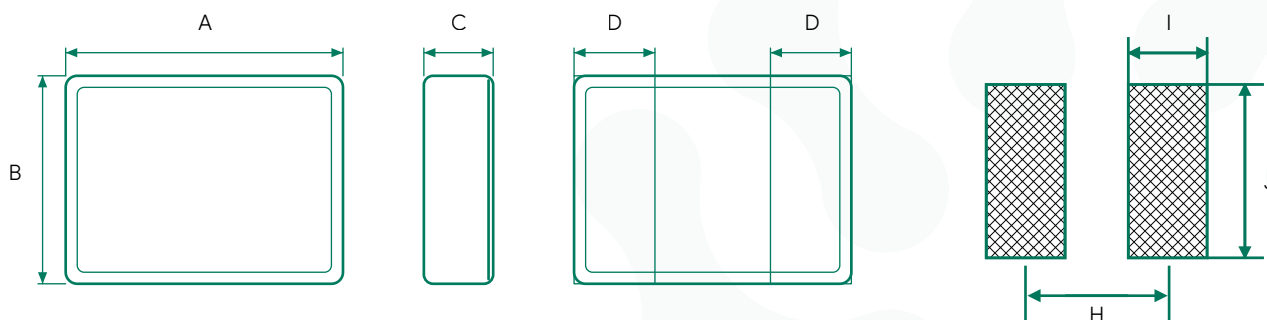
② Application

-  LED displays
-  Smart wearables
-  Smartphones, Pad
-  WiFi modules, Integrated modules

③ Part numbering



④ Appearance and Dimensions



Dimensions in mm

A	2.5 ± 0.2	B	2.0 ± 0.2	C	1.2Max	D	0.8 ± 0.3	H	2.0	I	1.2	J	2.2
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⑤ Rating

⚠ NOTE Operating Temperature Range : -55 to +150°C

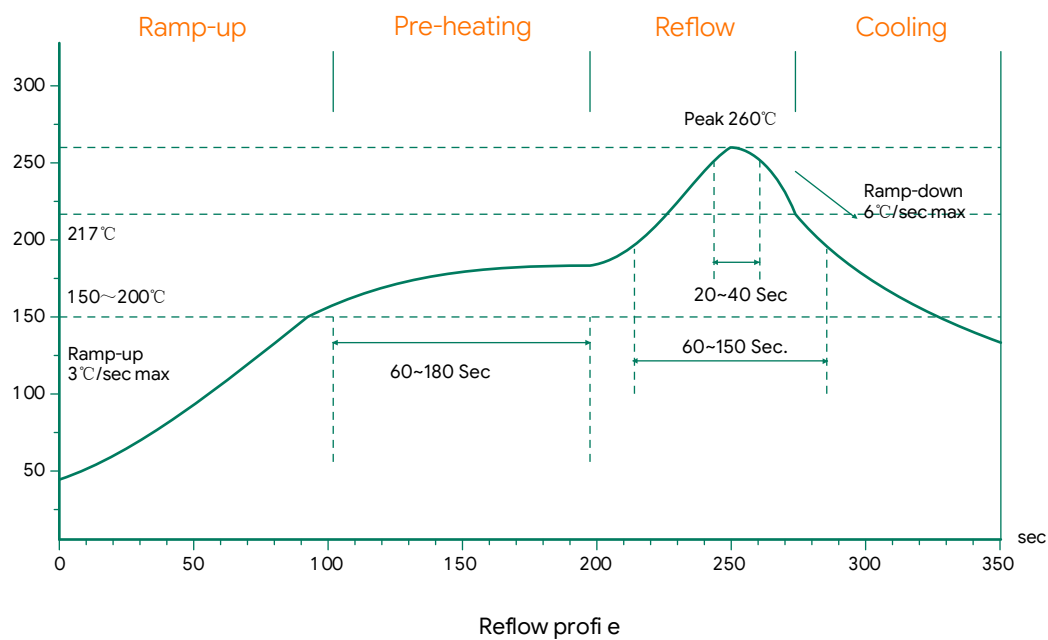
ELECTRICAL CHARACTERISTICS

Part No.	Inductance (uH)±20%	Test Freq (Hz/V)	DCR (mΩ)		Isat (A)		Irms (A)	
			Typ	Max	Typ	Max	Typ	Max
BMDP252012R24M00	0.24	1MHz/1V	10	12	10.0	9.5	7.0	6.4
BMDP252012R33M00	0.33	1MHz/1V	10	12	8.0	7.5	7.0	6.4
BMDP252012R47M00	0.47	1MHz/1V	11	13	7.4	6.8	6.7	6.0
BMDP252012R68M00	0.68	1MHz/1V	15	19	6.5	6.0	6.1	5.5
BMDP252012R82M00	0.82	1MHz/1V	22	26	6.0	5.5	5.5	5.0
BMDP2520121R0M00	1.00	1MHz/1V	25	28	5.8	5.3	5.7	5.2
BMDP2520121R5M00	1.50	1MHz/1V	40	44	4.8	4.2	5.0	4.5
BMDP2520122R2M00	2.20	1MHz/1V	50	60	4.0	3.3	3.7	3.3
BMDP2520122R2M01	2.20	1MHz/1V	72	84	4.7	4.2	3.2	2.9
BMDP2520123R3M00	3.30	1MHz/1V	80	97	3.0	2.7	2.8	2.5
BMDP2520124R7M00	4.70	1MHz/1V	110	128	2.6	2.1	2.5	2.0
BMDP2520126R8M00	6.80	1MHz/1V	210	245	2.2	1.9	2.0	1.6
BMDP252012100M00	10.00	1MHz/1V	310	350	1.7	1.5	1.5	1.3

⚠ Note

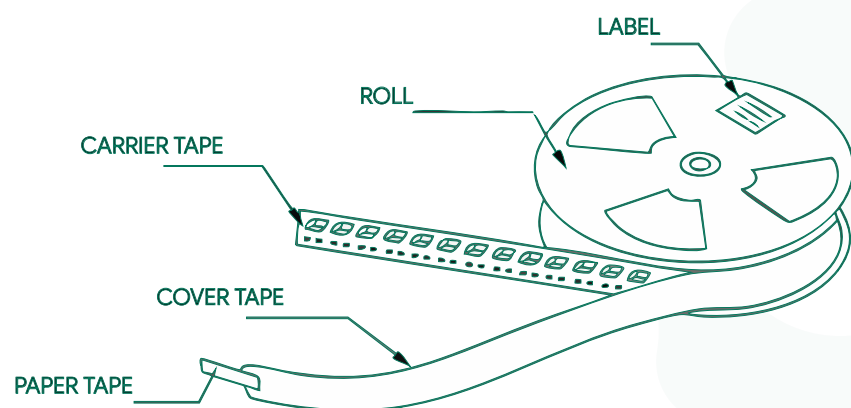
- All test data are referenced to an ambient temperature of $20 \pm 5^{\circ}\text{C}$ and a relative humidity of 60%~80% RH.
- Isat: Max. Value, DC current at which the inductance drops less than 30% from its zero-current value;Typ. Value, DC current at which the inductance drops by approximately 30% from its zero-current value.
- Irms: Max. Value, DC current at which $\Delta T < 40^{\circ}\text{C}$;Typ. Value, DC current at which $\Delta T \approx 40^{\circ}\text{C}$
- Absolute maximum voltage: DC 25 V.
- Special reminder: Circuit design, component layout, printed circuit board (PCB) size and thickness, and heat dissipation system can all affect product temperature.Please be sure to verify the product's heating condition during final application.

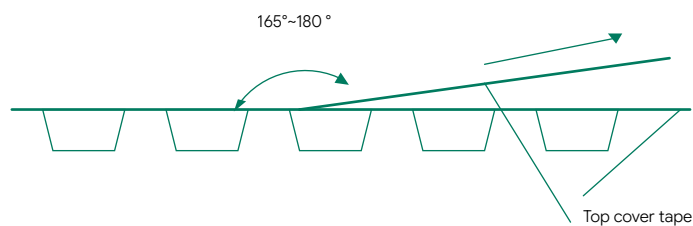
⑥ Recommended Soldering Conditions



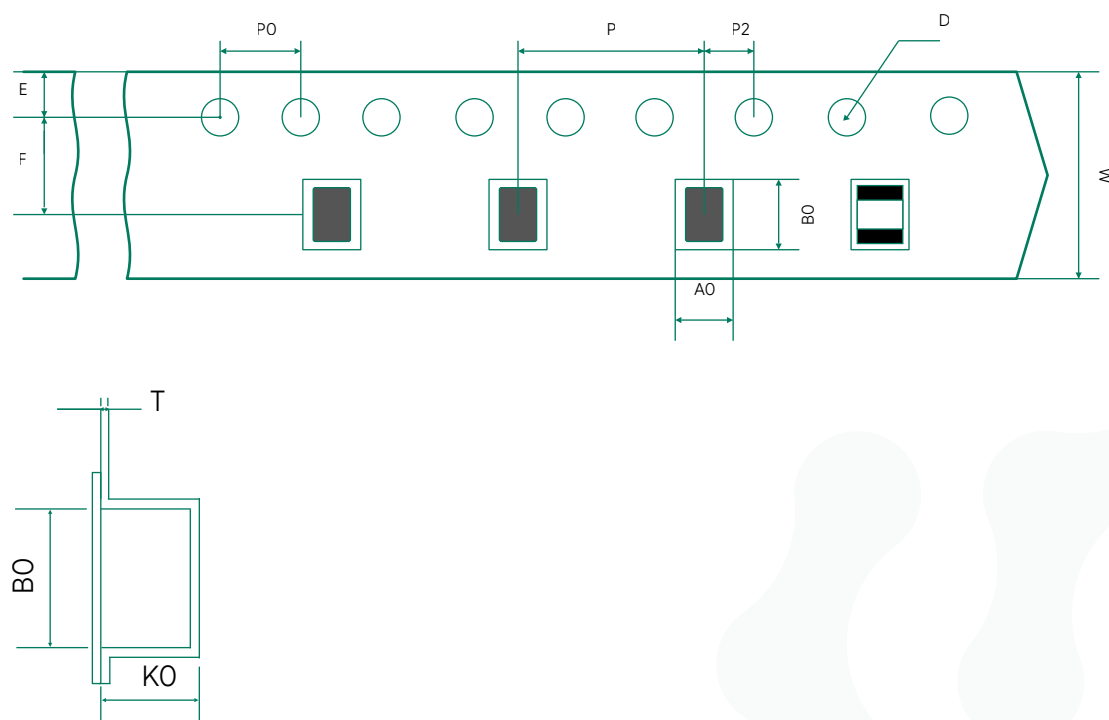
⑦ Packaging

7.1 Taping Figure





7.2 Carrier Tape Dimensions



Tape Dimensions in mm

(Unit:mm)

W	A0	B0	K0	D	F	E	P	P0	P2	T
8.0±0.2	2.45±0.1	2.75±0.1	1.55±0.1	1.5±0.1	3.5±0.1	1.75±0.1	4.0±0.1	4.0±0.1	2.0±0.1	0.25±0.05

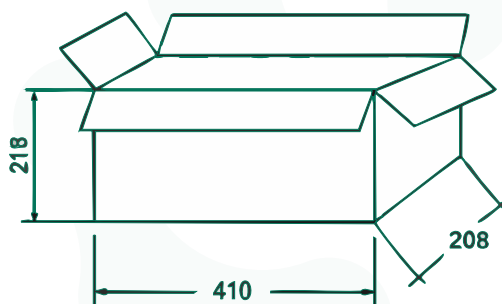
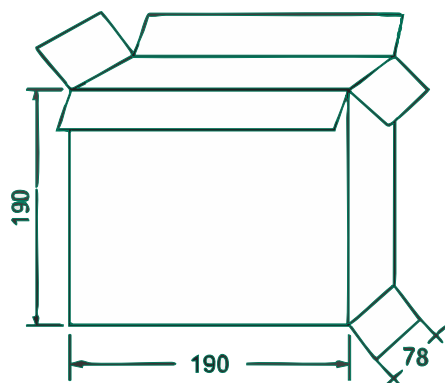
7.3 REEL DIMENSIONS



Tape Dimensions in mm

TYPE	A	B	C
252012	178±1	60±1	13±0.5

7.4 Packaging quantities



Reel	Box	Carton
3000	15000	75000
1Reel	5Reel/1Box	5Box/1Carton

⑧ Rating

1, Storage period

Use the products within 12 months after delivered. Solderability should be checked if this period is exceeded.

2, Storage conditions

- Storage temperature: -55 to +150 °C
- Storage environment: -10 °C to +40 °C ; humidity 70%RH Max

3, Delivery

Care should be taken when transporting or handling product to avoid excessive vibration or mechanical shock.