

PRODUCT SPECIFICATIONS



BCMC101006 — SERIE

CUSTOMER'S PRODUCT NAME:

DATE: 2026.07

SPEC. NO: D-2607-21

THIS SPECIFICATION IS:

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

SIGNATURE:

DATE:

NAME(PRINT):

TITLE:



① Features

Stable Inductance Performance & Low Power Consumption Design

Reliable Current Carrying Capacity

Wide Temperature Range Adaptability

Excellent Environmental and Mechanical Reliability

② Application

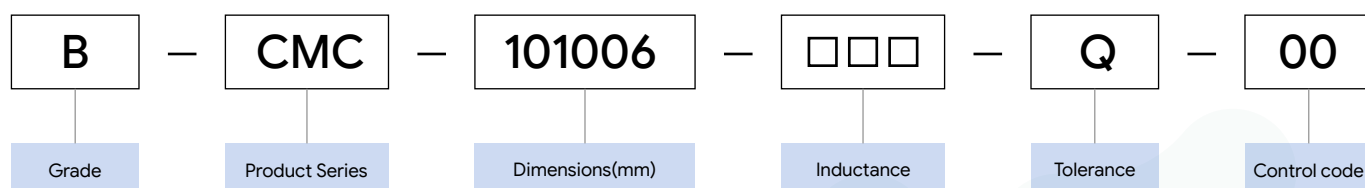
Applicable to power management modules of audio-visual entertainment and home appliance products

Used in power supply circuits of computers and office automation equipment

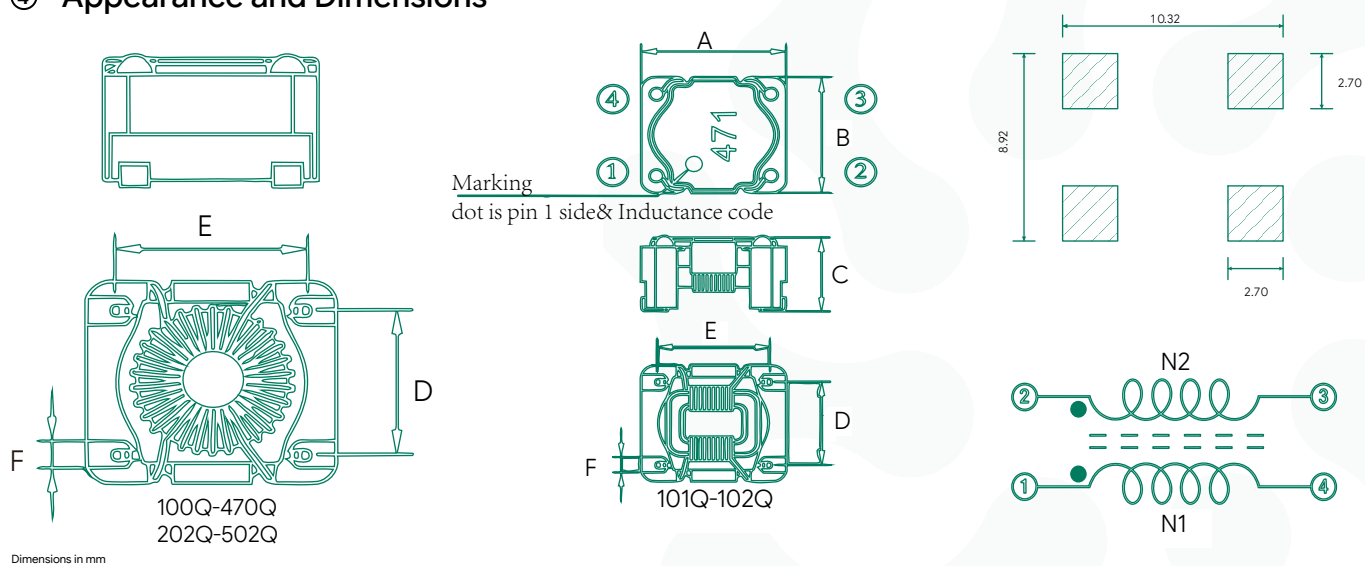
Applied to communication equipment and small power supply module circuit systems

Suitable for LED lighting, measuring instruments and industrial control board power drive circuits

③ Part numbering



④ Appearance and Dimensions



A 10.00 ± 0.50

B 8.70 ± 0.30

C 6.50Max

D 6.22 ± 0.10

E 7.62 ± 0.10

F 1.4Ref

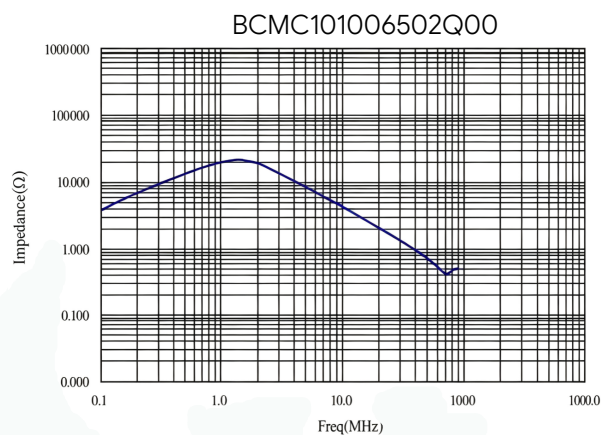
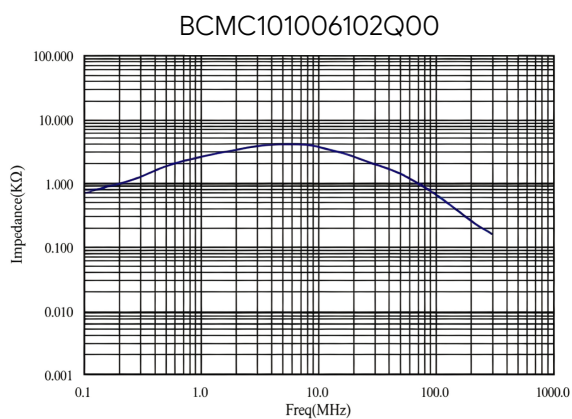
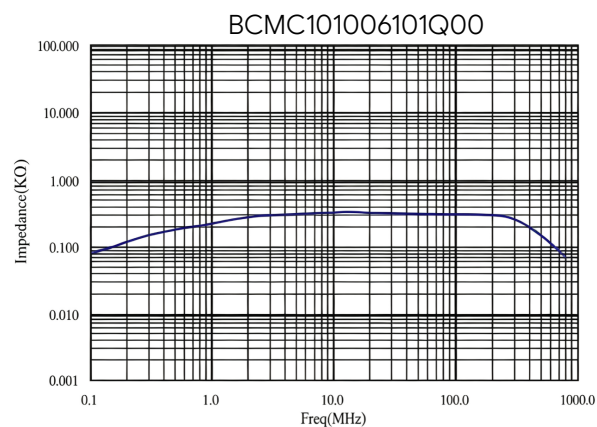
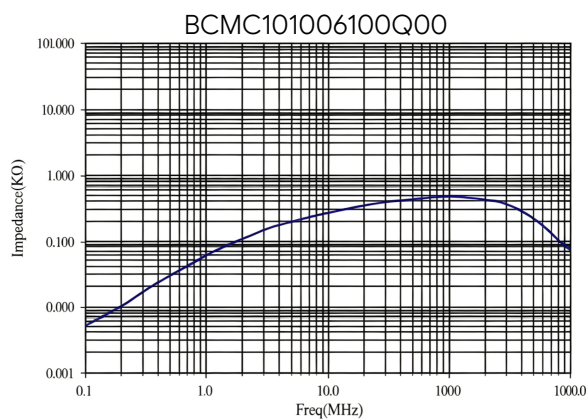
⑤ Rating

⚠ NOTE Operating Temperature Range : -40 to +125°C

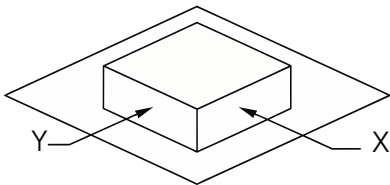
ELECTRICAL CHARACTERISTICS

Part No.	Inductance Lo (uH)±40%	DCR (mΩ) Max	RatedCurrent (A)Max	Hi-Pot (Vac) 3mA/1S	Impedance (Ω) Min
BCMC101006100Q00	10	30	4.00	600	100
BCMC101006220Q00	22	35	3.80	600	300
BCMC101006470Q00	47	40	3.20	600	800
BCMC101006101Q00	100	25	3.00	1000	100
BCMC101006121Q00	120	25	2.50	1000	200
BCMC101006201Q00	200	15	3.00	1000	300
BCMC101006221Q00	220	32	2.20	1000	350
BCMC101006251Q00	250	35	2.00	1000	400
BCMC101006331Q00	330	48	2.50	1000	500
BCMC101006471Q10	470	65	1.60	1000	900
BCMC101006501Q00	500	70	1.50	1000	800
BCMC101006102Q00	1000	180	0.95	1000	1400
BCMC101006202Q00	2000	270	0.80	300	2000
BCMC101006222Q00	2200	300	0.75	300	3400
BCMC101006302Q00	3000	330	0.70	300	3000
BCMC101006332Q10	3300	360	0.65	300	4400
BCMC101006392Q00	3900	540	0.52	300	5000
BCMC101006402Q00	4000	600	0.45	300	4000
BCMC101006472Q00	4700	720	0.35	300	6200
BCMC101006502Q00	5000	780	0.30	300	5000

Typical Electrical Characteristics

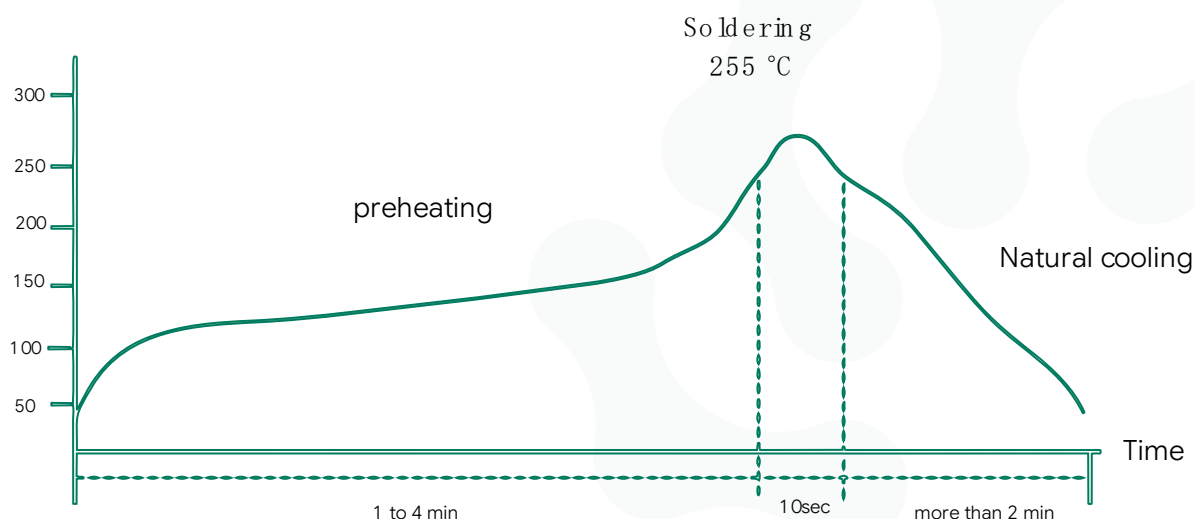


⑥ Reliable Performance

Operating Temperature	- 40 to +125 °C (Contain Heating coil)
Appearance Inspection	No external defects by visual inspection
Terminal Strength 	After soldering, between copper plaet and terminals of coils, push in two directions of X, Y with standing 10N(1.02kg) for 10+/-2 sec. Terminal should not peel off. (Refer to figure at right)
Heat endurance of reflow soldering	Refer to figure
Insulating resistance	Over 10 M Ω at 50V D.C. between wire and core
Dielectric Strength	Apply at 0.5KV 3mA for 1 minute between wire and core
Temperature characteristics	Inductance coefficient (0~2,000) $\times 10^{-4} / ^\circ\text{C}$ (- 20~+ 80 °C)
Humidity characteristics	Inductance deviation within $\pm 10\%$, after 96 hours in 90~95% relative humidity at $40 \pm 2 ^\circ\text{C}$ and 1 hours drying under normal condition
A test is made under the above mentioned condition, and it is kept for 2 hours in the normal	

⑦ Recommended Soldering Conditions

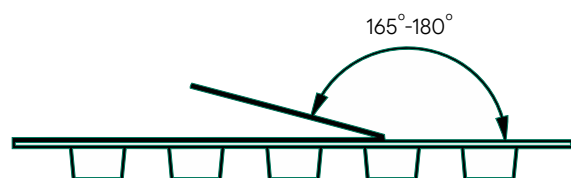
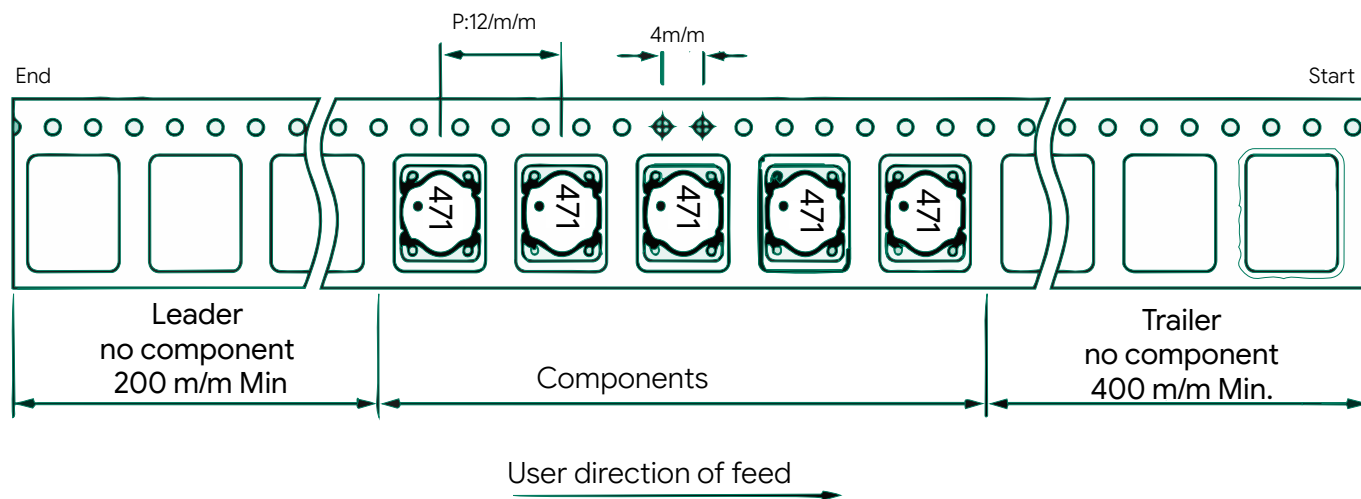
Temperature °C



Temperature and humidity . After that , no mechanical and electrical defect should be found .

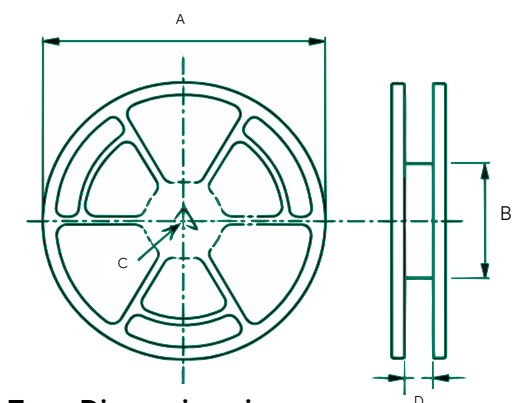
⑧ Packaging

8.1 Carrier Tape



Tape width	Distance	Pull-of force
24 mm	12 mm	10~130g

8.2 REEL DIMENSIONS



Tape Dimensions in mm

TYPE	A	B	C	D
101006	330	100	13	24.5

8.3 Packaging quantities

TYPE	PCS/REEL
101006	800

⑨ 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: 15°C ~ 25°C
- Storage environment: Humidity RH<65%

3, Delivery

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