

PRODUCT SPECIFICATION

SPEC. NO: C-2601-03

DATE: Jan.7,2026

CUSTOMER'S PRODUCT NAME:

EMTEK PRODUCT NAME:

BCMC706038-SERIES

THIS SPECIFICATION IS:

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



SIGNATURE: _____ DATE: _____

NAME(PRINT): _____

TITLE: _____

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EMTEK CO., LTD.

FACTORY:

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TEL: 03-5894-433

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PRODUCT SPECIFICATION

SPEC. NO.

C-2601-03

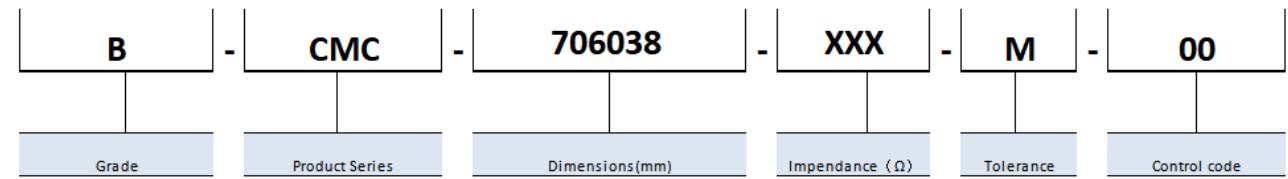
1. Features

- Electromagnetic Interference (EMI) Suppression: Provides stable impedance characteristics at the test frequency of 100MHz, effectively attenuating common-mode and differential-mode interference signals to meet electromagnetic compatibility requirements.
- High-Frequency Noise Filtering: Targeting high-frequency circuit environments, blocks unwanted high-frequency clutter through high-impedance characteristics to ensure the purity of signal transmission.
- Circuit Operation Stabilization: Low DC Resistance (DCR) design reduces power loss, and combined with rated current and voltage parameters, ensures stable circuit operation within the wide temperature range of -40°C~+125°C.
- Polarization-Free Mounting Compatibility: Non-polar design simplifies circuit assembly processes, adapts to automated surface mounting technology, and improves production efficiency.

2. Application

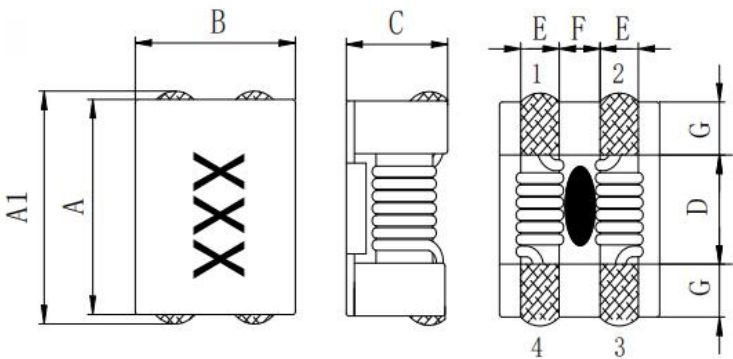
- Suitable for power management modules of consumer electronic devices such as smartphones and tablet computers.
- Compatible with smart home products including smart speakers and smart sockets.
- Used in circuit systems of industrial control equipment like PLCs and frequency converters.
- Applied to security monitoring equipment such as cameras and digital video recorders.

3. Part numbering



4. Appearance and Dimensions

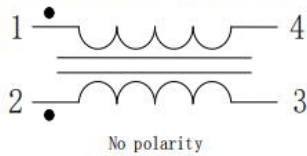
EXTERNAL DIMENSIONS UNIT: mm



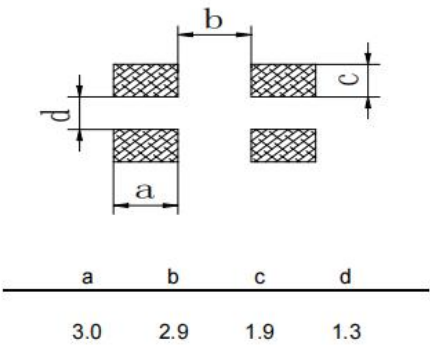
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A	A1	B	C	D	E	F	G
7.0±0.5	7.5±0.6	6.0±0.5	3.8Max	3.5±0.3	1.5±0.3	1.5±0.3	1.7±0.3

ELECTRICAL SCHEMATIC



PAD LAYOUT UNIT: mm



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5. Rating

NOTE:

●Operating temperature: -40°C~+125°C

ELECTRICAL CHARACTERISTICS(@ 25°C)

Part No.	Impedance (Ω)	Test Freq	DCR ($m\Omega$)	Rated Current (A)	Insulation Voltage (V)Dc	Insulation Resistance ($M\Omega$)	Marking
BCMC706038400M00	40 Min(70Typ)	100MHz	5 Max	15 Max	125	10.0 Min	400
BCMC706038101M00	100 Min(140Typ)	100MHz	10 Max	9 Max	125	10.0 Min	101
BCMC706038301M00	225 Min(300Typ)	100MHz	10 Max	5 Max	125	10.0 Min	301
BCMC706038501M00	275 Min(350Typ)	100MHz	10 Max	5 Max	125	10.0 Min	501
BCMC706038701M00	500 Min(700Typ)	100MHz	15 Max	4 Max	125	10.0 Min	701
BCMC706038102M00	800 Min(1020Typ)	100MHz	17 Max	3 Max	125	10.0 Min	102
BCMC706038132M00	910 Min(1300Typ)	100MHz	21 Max	2.5 Max	125	10.0 Min	132
BCMC706038222M00	1700 Min(2200Typ)	100MHz	50 Max	1.2Max	125	10.0 Min	222
BCMC706038272M00	2000 Min(2700Typ)	100MHz	63 Max	1.0 Max	125	10.0 Min	272
BCMC706038302M00	2500 Min(3000Typ)	100MHz	75 Max	0.9 Max	125	10.0 Min	302

Rated Current: $\Delta T \leq 40^{\circ}\text{C}$ Typ



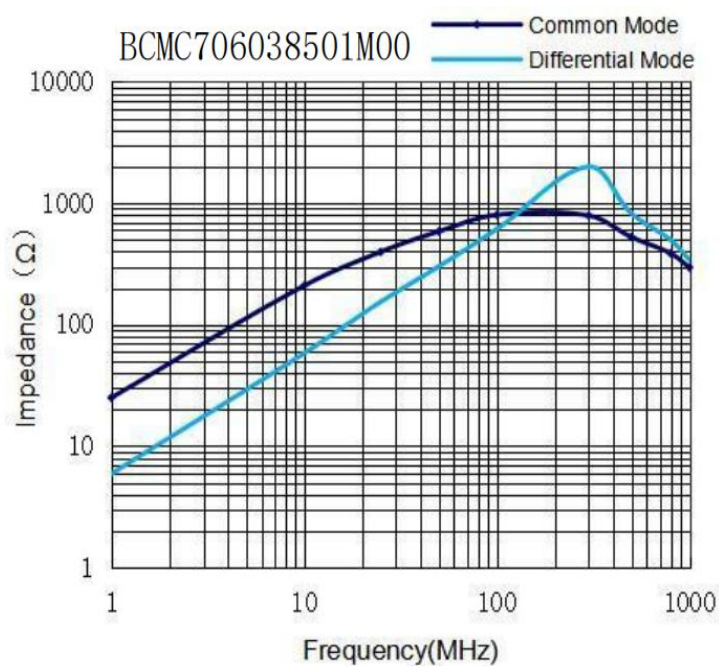
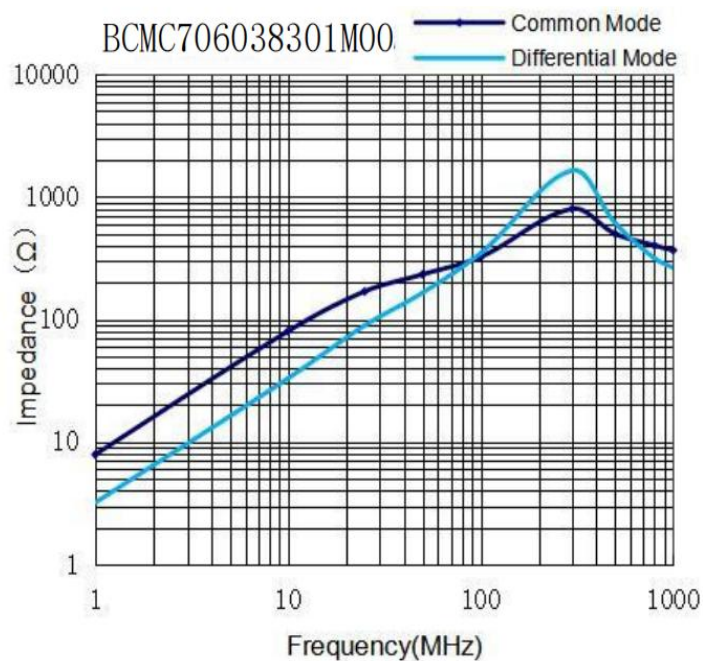
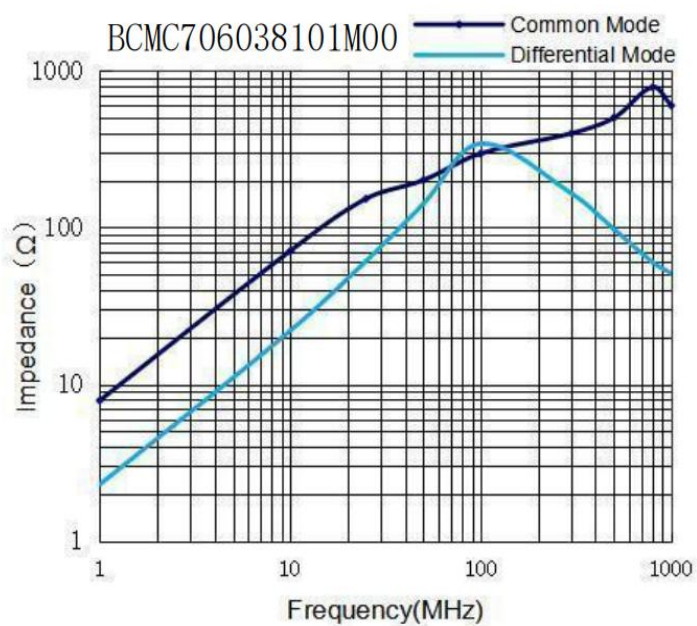
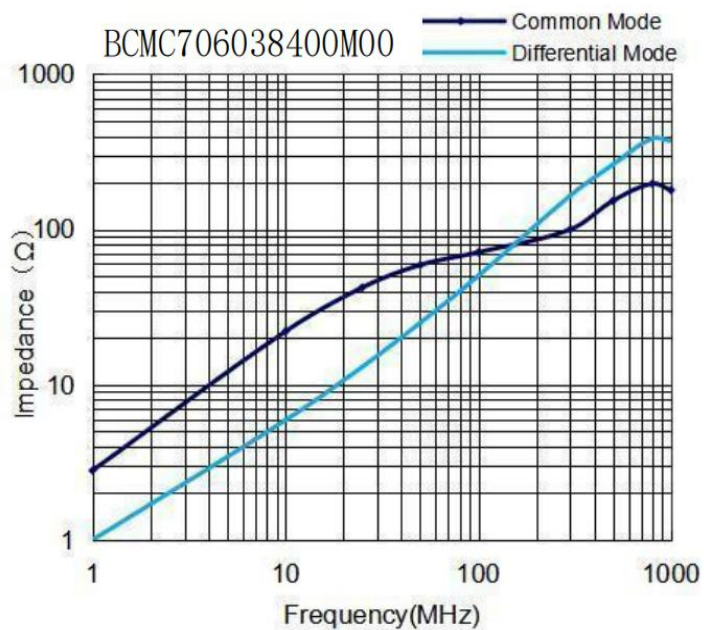
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Typical Electrical Characteristics

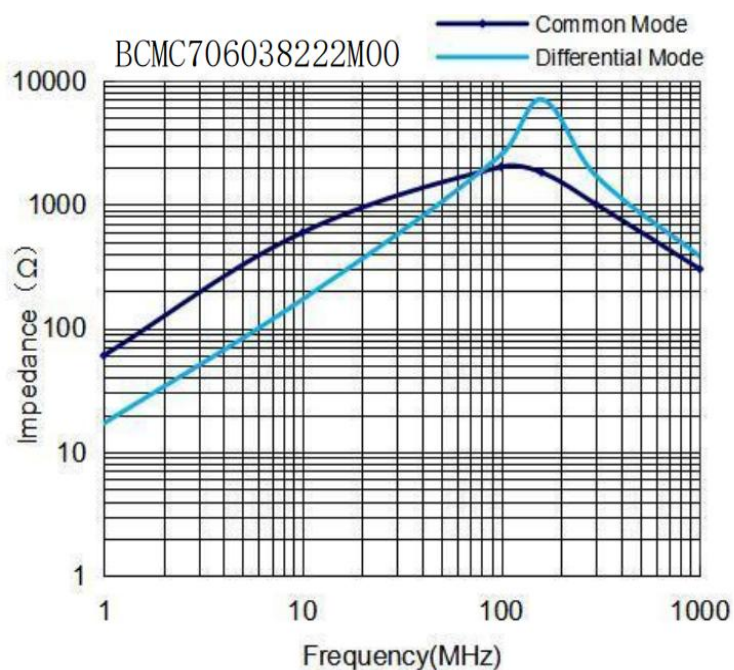
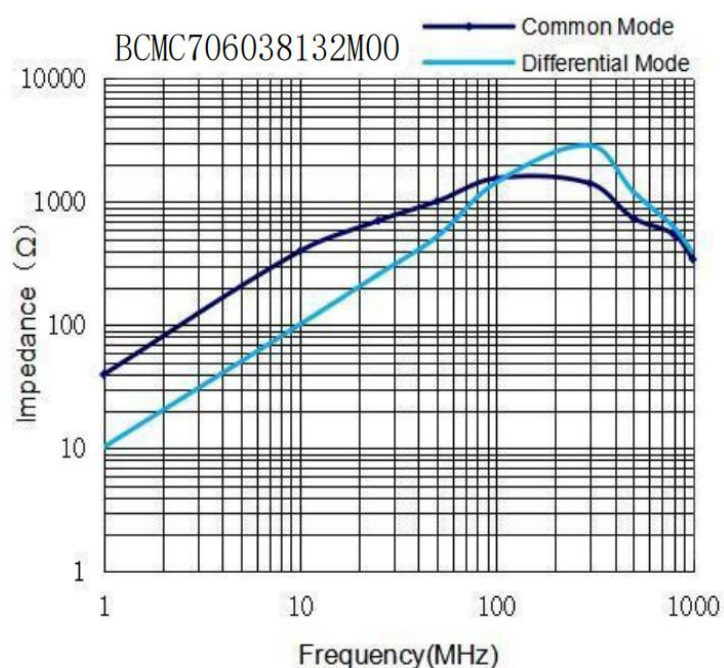
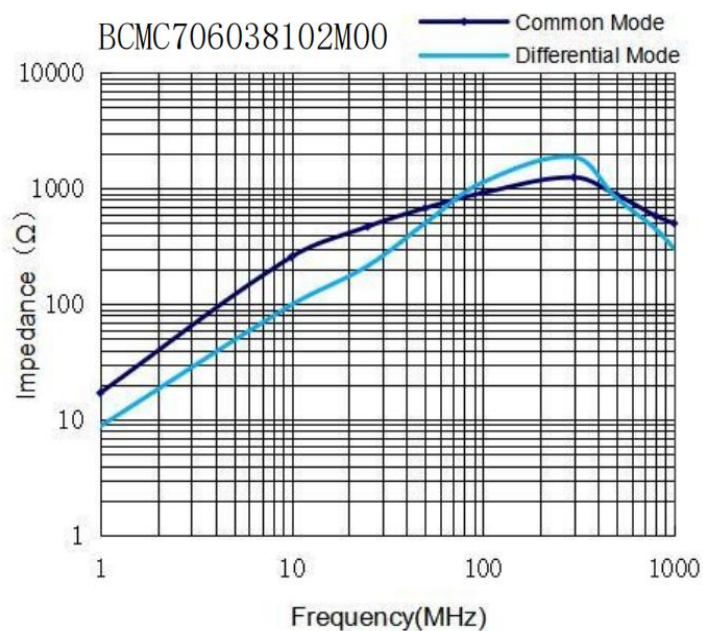
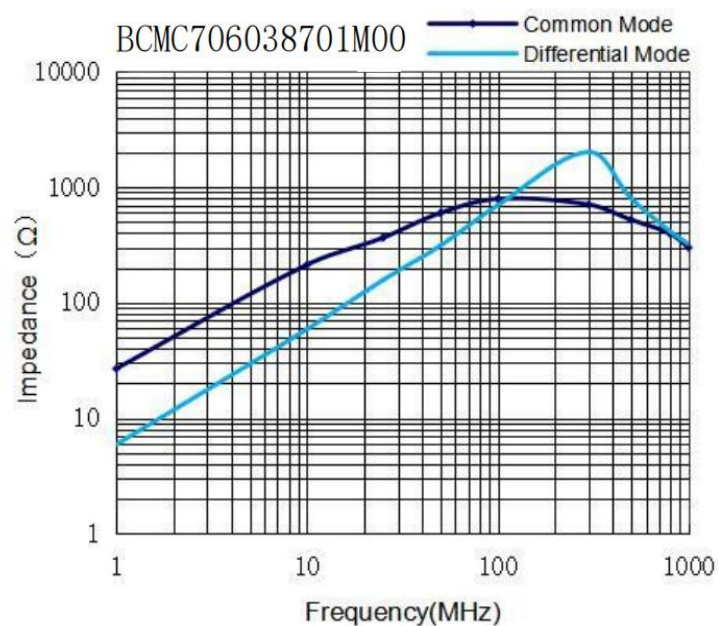


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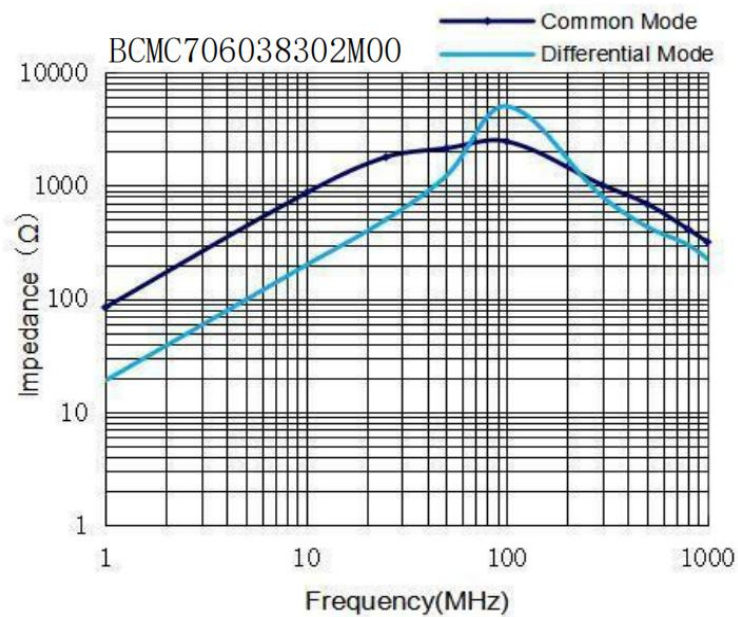
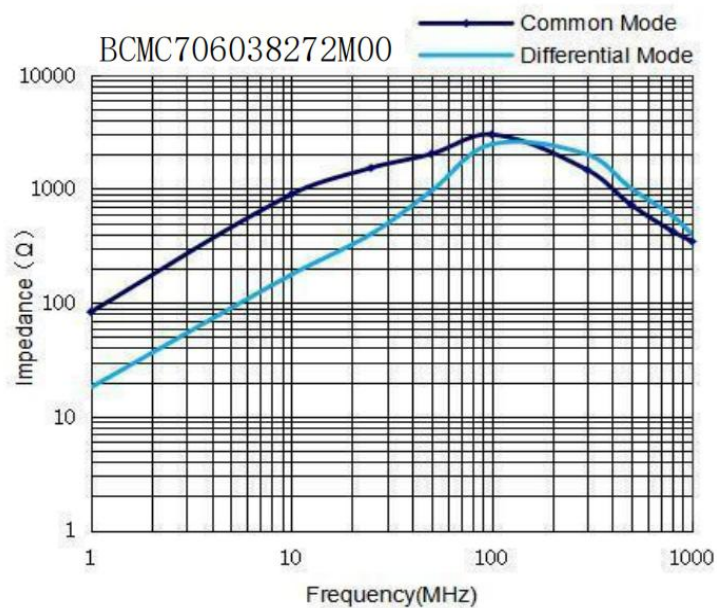


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PRODUCT SPECIFICATION

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6. Reliable Performance

TEST DATA FOR PREPRODUCTION SAMPLES (BCMC706038101M00)

MEAS. Item	Impedance (Ω)	DCR (mΩ)				A (mm)	B (mm)	C (mm)		
Spec	100 Min(140Typ)	10 Max				7.0±0.5	6.0±0.5	4.0Max		
Test Freq.	100MHz									
1	166	6.51				6.85	5.78	3.45		
2	162	5.6				6.99	5.81	3.45		
3	168	6.42				6.91	5.86	3.48		
4	156	6.26				6.88	5.95	3.41		
5	159	6.72				6.95	5.88	3.46		
6	142	6.51				7.01	5.95	3.39		
7	139	6.49				6.99	6.01	3.42		
8	152	6.44				7.05	5.94	3.46		
9	146	6.59				7.01	5.99	3.39		
10	147	6.51				6.94	5.92	3.38		
X	154	6.41				6.96	5.91	3.43		
R	29.0	1.12				0.20	0.23	0.10		

TEST INSTRUMENT:

Impedance 4287A

DCR GKT-502BC

PRODUCT SPECIFICATION

SPEC. NO.

C-2601-03

TEST DATA FOR PREPRODUCTION SAMPLES (BCMC706038301M00)

MEAS. Item	Impedance (Ω)	DCR (mΩ)				A (mm)	B (mm)	C (mm)		
Spec	225 Min(300Typ)	10 Max				7.0±0.5	6.0±0.5	4.0Max		
Test Freq.	100MHz									
1	295	7.74				6.85	5.78	3.45		
2	302	7.84				6.99	5.81	3.45		
3	296	7.68				6.91	5.86	3.48		
4	287	8.09				6.88	5.95	3.41		
5	304	7.73				6.95	5.88	3.46		
6	291	7.84				7.01	5.95	3.39		
7	300	8.01				6.99	6.01	3.42		
8	289	7.69				7.05	5.94	3.46		
9	287	7.91				7.01	5.99	3.39		
10	284	8.02				6.94	5.92	3.38		
X	294	7.86				6.96	5.91	3.43		
R	20.0	0.41				0.20	0.23	0.10		

TEST INSTRUMENT:

Impedance 4287A

DCR GKT-502BC

PRODUCT SPECIFICATION

SPEC. NO.

C-2601-03

TEST DATA FOR PREPRODUCTION SAMPLES (BCMC706038501M00)

MEAS. Item	Impedance (Ω)	DCR (mΩ)				A (mm)	B (mm)	C (mm)		
Spec	275 Min(350Typ)	10 Max				7.0±0.5	6.0±0.5	4.0Max		
Test Freq.	100MHz									
1	662	7.84				7.02	5.84	3.48		
2	637	8.15				7.04	5.86	3.42		
3	657	7.96				7.06	5.85	3.44		
4	670	8.2				7.02	5.85	3.42		
5	705	8.86				7.05	5.86	3.46		
6	662	8.38				7.14	5.86	3.45		
7	673	8.56				7.06	5.84	3.42		
8	688	8.45				7.03	5.85	3.44		
9	682	7.92				7.03	5.85	3.47		
10	669	8.3				7.05	5.86	3.41		
X	671	8.26				7.05	5.85	3.44		
R	68.0	1.02				0.12	0.02	0.07		

TEST INSTRUMENT:

Impedance 4287A

DCR GKT-502BC

PRODUCT SPECIFICATION

SPEC. NO.

C-2601-03

TEST DATA FOR PREPRODUCTION SAMPLES (BCMC7060701M00)

MEAS. Item	Impedance (Ω)	DCR (mΩ)				A (mm)	B (mm)	C (mm)		
Spec	500 Min (700Typ)	15 Max				7.0±0.5	6.0±0.5	4.0Max		
Test Freq.	100MHz									
1	623	9.3				7.25	5.88	3.45		
2	631	9.37				7.27	5.94	3.46		
3	617	9.45				7.24	5.86	3.45		
4	626	9.26				7.26	5.97	3.45		
5	620	9.38				7.25	5.96	3.46		
6	611	9.41				7.24	5.94	3.45		
7	620	9.38				7.21	5.94	3.47		
8	617	9.41				7.19	5.91	3.45		
9	616	9.35				7.22	5.9	3.44		
10	620	9.45				7.19	5.94	3.41		
X	620	9.38				7.23	5.92	3.45		
R	20.0	0.19				0.08	0.11	0.06		

TEST INSTRUMENT:

Impedance 4287A

DCR GKT-502BC

PRODUCT SPECIFICATION

SPEC. NO.

C-2601-03

TEST DATA FOR PREPRODUCTION SAMPLES (BCMC7060132M00)

MEAS. Item	Impedance (Ω)	DCR (mΩ)				A (mm)	B (mm)	C (mm)		
Spec	910 Min(1300Typ)	21 Max				7.0±0.5	6.0±0.5	4.0Max		
Test Freq.	100MHz									
1	1503	19.3				6.89	5.78	3.3		
2	1492	19.8				6.93	5.83	3.33		
3	1426	19				6.94	5.8	3.31		
4	1519	18.6				6.92	5.82	3.31		
5	1510	18.9				6.9	5.8	3.3		
6	1452	18.7				6.87	5.81	3.31		
7	1482	19				6.97	5.83	3.31		
8	1419	18.7				6.9	5.79	3.32		
9	1458	18.6				6.93	5.8	3.3		
10	1502	18.6				6.9	5.81	3.33		
X	1476	18.9				6.92	5.81	3.31		
R	100	1.20				0.10	0.05	0.03		

TEST INSTRUMENT:

Impedance 4287A

DCR GKT-502BC

PRODUCT SPECIFICATION

SPEC. NO.

C-2601-03

TEST DATA FOR PREPRODUCTION SAMPLES (BCMC706038272M00)

MEAS. Item	Impedance (Ω)	DCR (mΩ)				A (mm)	B (mm)	C (mm)		
Spec	2000 Min(2700Typ)	63 Max				7.0±0.5	6.0±0.5	4.0Max		
Test Freq.	100MHz									
1	2519	44.4				6.97	5.94	3.36		
2	2466	48.7				7.01	5.89	3.41		
3	2433	46.9				6.97	5.89	3.37		
4	2507	42.8				6.98	5.87	3.41		
5	2511	43.3				6.98	5.93	3.39		
6	2479	42.5				6.97	5.9	3.32		
7	2468	45.6				6.94	5.88	3.36		
8	2491	46.1				7.02	5.89	3.39		
9	2481	43.3				7.00	5.92	3.32		
10	2452	42.4				7.01	5.87	3.34		
X	2481	44.6				6.99	5.9	3.37		
R	86.0	6.30				0.08	0.07	0.09		

TEST INSTRUMENT:

Impedance 4287A

DCR GKT-502BC

PRODUCT SPECIFICATION

SPEC. NO.

C-2601-03

TEST DATA FOR PREPRODUCTION SAMPLES (BCMC706038302M00)

MEAS. Item	Impedance (Ω)	DCR (mΩ)				A (mm)	B (mm)	C (mm)		
Spec	800 Min(1020Typ)	17 Max				7.0±0.5	6.0±0.5	4.0Max		
Test Freq.	100MHz									
1	2730	52.8				6.93	6.01	3.37		
2	2709	55.4				6.91	5.96	3.37		
3	2702	47.2				6.92	5.96	3.36		
4	2702	47.0				6.94	5.97	3.36		
5	2728	50.1				6.9	5.95	3.31		
6	2714	50.4				6.89	5.98	3.34		
7	2707	46.5				6.92	5.94	3.31		
8	2714	49.0				6.93	5.96	3.35		
9	2722	47.3				6.91	5.97	3.36		
10	2731	49.2				6.92	5.95	3.37		
X	2716	49.5				6.92	5.97	3.35		
R	29.0	8.90				0.05	0.07	0.06		

TEST INSTRUMENT:

Impedance 4287A

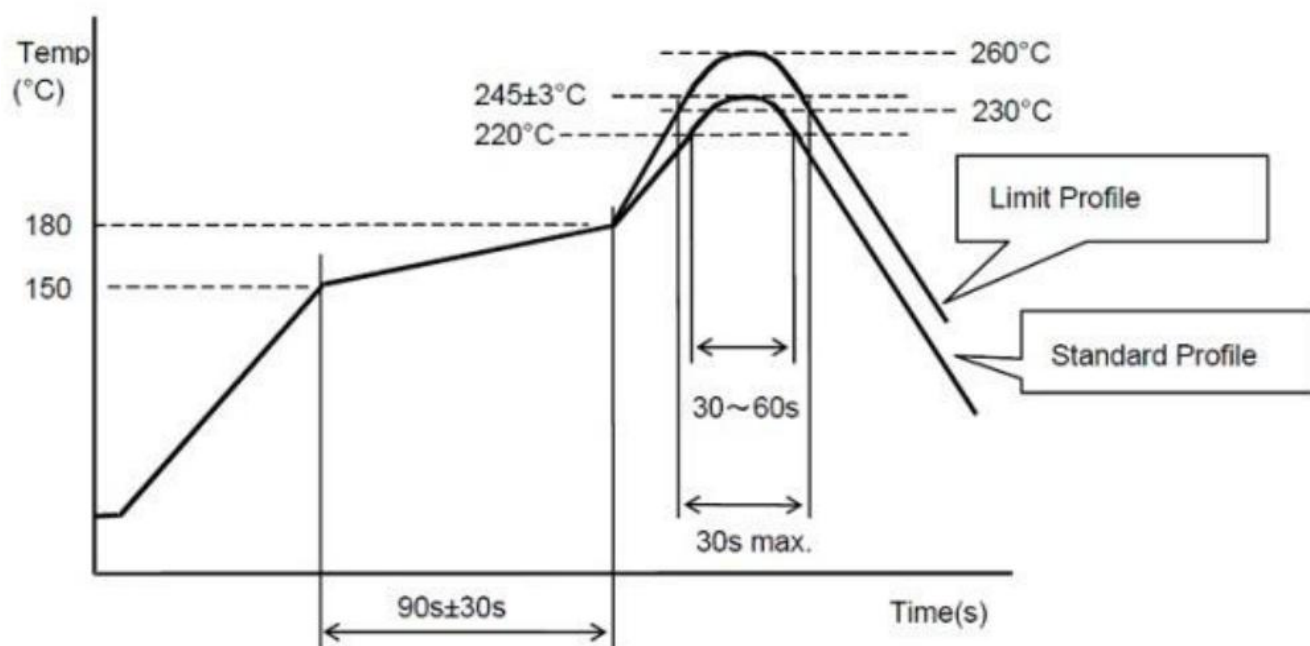
DCR GKT-502BC

PRODUCT SPECIFICATION

SPEC. NO.

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7.Recommended Soldering Conditions



	Standard Profile	Limit Profile
Pre-heating	150~180°C、90s±30s	
Heating	above 220°C、30s-60s	above 240°C、30s max
Peak temperature	245°C±3°C	260°C、10s
Cycle of reflow	2 times	2 times



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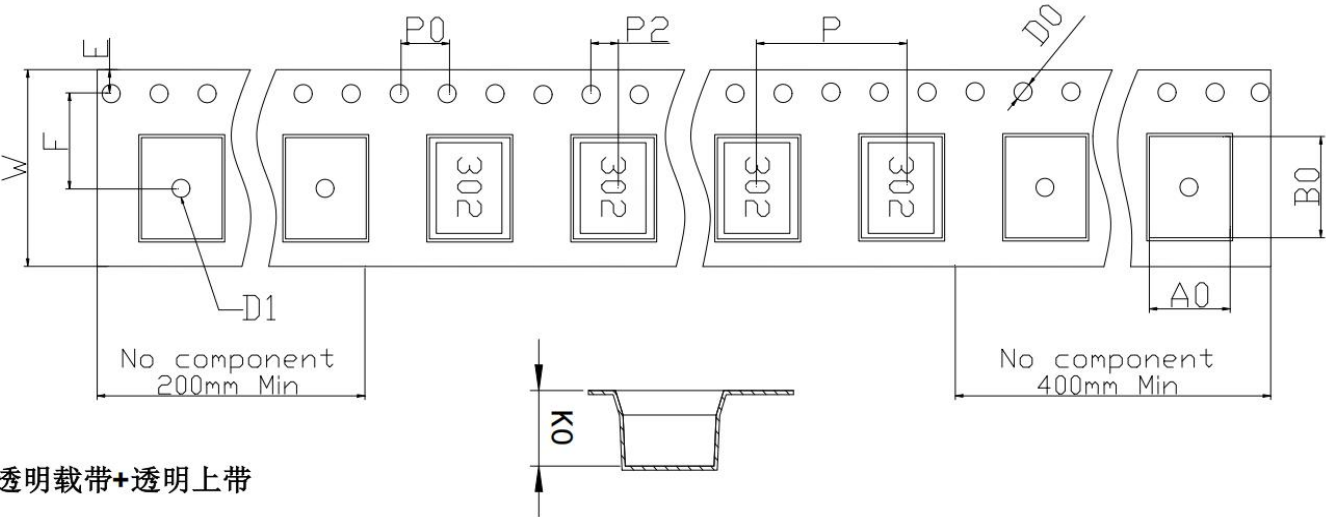
PRODUCT SPECIFICATION

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8.Packaging

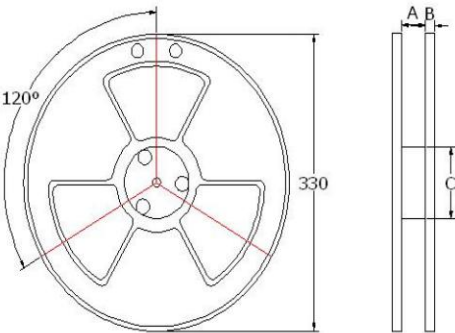
Carrier Tape (Unit:mm)



W=16.0
A0=6.35
B0=7.85
K0=4.0
P=12.0
P0=4.0
P2=2.0
F=7.5
E=1.75
D0=1.5
D1=1.5

透明載帶+透明上帶

Reel (Unit:mm)



A=16.5
B=2.3
C=100

PRODUCT SPECIFICATION

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(2) Packaging quantities

QTY

Reel(Pcs) 1,500

Middle Carton(Pcs) 1,500

Big Carton(Pcs) 7,500

N.W(Kg)

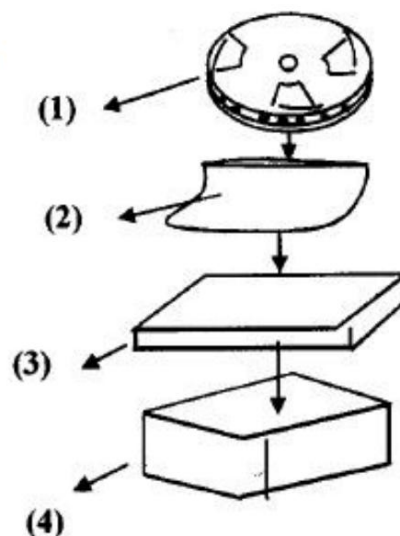
G.W(Kg)

1500PCS/Reel

1Reel/Bag

1Bags/Small Box

5Small Boxes/Outer Box



9.Storage

(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: $-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$

●Storage environment: $0^{\circ}\text{C}\sim+40^{\circ}\text{C}$ humidity: RH10%~70%

(3) Delivery

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



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