

PRODUCT SPECIFICATION

SPEC. NO: C-2601-04

DATE: Jan.7,2026

CUSTOMER'S PRODUCT NAME:

EMTEK PRODUCT NAME:

BCMC907050-SERIES

THIS SPECIFICATION IS:

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



SIGNATURE: DATE:

NAME(PRINT):

TITLE:

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EMTEK CO., LTD.

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TEL: 03-5894-433

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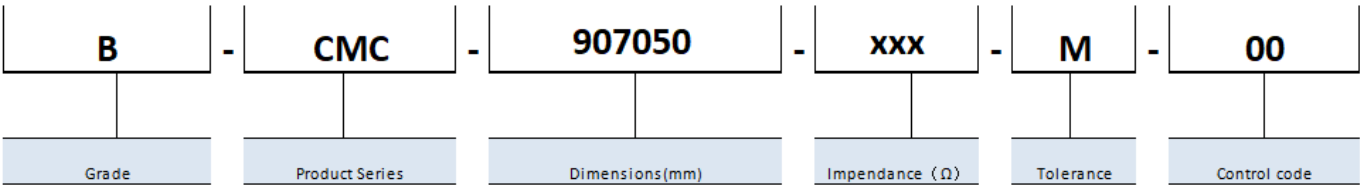
1. Features

- 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

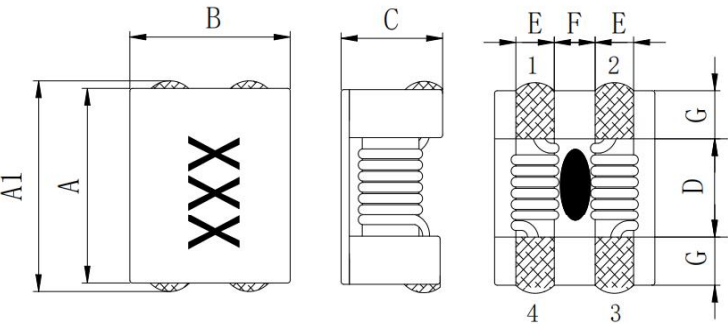
- Suitable for power management modules of consumer electronic devices such as smartphones and tablet computers.
- Compatible with smart home products including smart speakers and smart sockets.
- Used in circuit systems of industrial control equipment like PLCs and frequency converters.
- Applied to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

3. Part numbering



4. Appearance and Dimensions

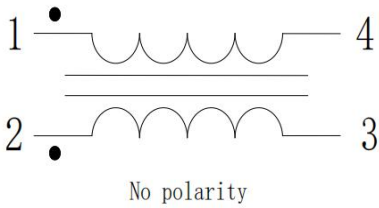
EXTERNAL DIMENSIONS UNIT: mm



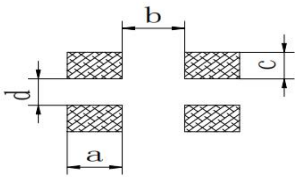
Marking: 白色 "XXX".

A	A1	B	C	D	E	F	G
9.0±0.5	9.5±0.6	7.0±0.5	5.0Max	5.7REF	1.5REF	2.0REF	1.7REF

ELECTRICAL SCHEMATIC



PAD LAYOUT UNIT: mm



a	b	c	d
3.0	5.0	2.2	1.8

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5. Rating

NOTE:

- Operating temperature: -40℃~+125℃

ELECTRICAL CHARACTERISTICS(@ 25℃)

Part No.	Impedance (Ω)	Test Freq	DCR (mΩ)	Rated Current (A)	Rated Voltage (V)Dc	Insulation Resistance (MΩ)	MARKING
BCMC907050301M00	225 Min(300Typ)	100MHz	6 Max	6.0 Max	125 Max	10.0 Min	301
BCMC907050501M00	450 Min(600Typ)	100MHz	8 Max	5.5 Max	125 Max	10.0 Min	501
BCMC907050701M00	500 Min(700Typ)	100MHz	10 Max	5.0 Max	125 Max	10.0 Min	701
BCMC907050102M00	750 Min(1000Typ)	100MHz	13 Max	4.0 Max	125 Max	10.0 Min	102
BCMC907050132M00	1000 Min(1300Typ)	100MHz	17 Max	4.0 Max	125 Max	10.0 Min	132
BCMC907050172M00	1200 Min(1700Typ)	100MHz	20 Max	4.0 Max	125 Max	10.0 Min	172
BCMC907050222M00	1700 Min(2200Typ)	100MHz	60 Max	2.5 Max	125 Max	10.0 Min	222
BCMC907050272M00	2000 Min(2700Typ)	100MHz	65 Max	2.0 Max	125 Max	10.0 Min	272
BCMC907050302M00	2500 Min(3000Typ)	100MHz	70 Max	1.9 Max	125 Max	10.0 Min	302

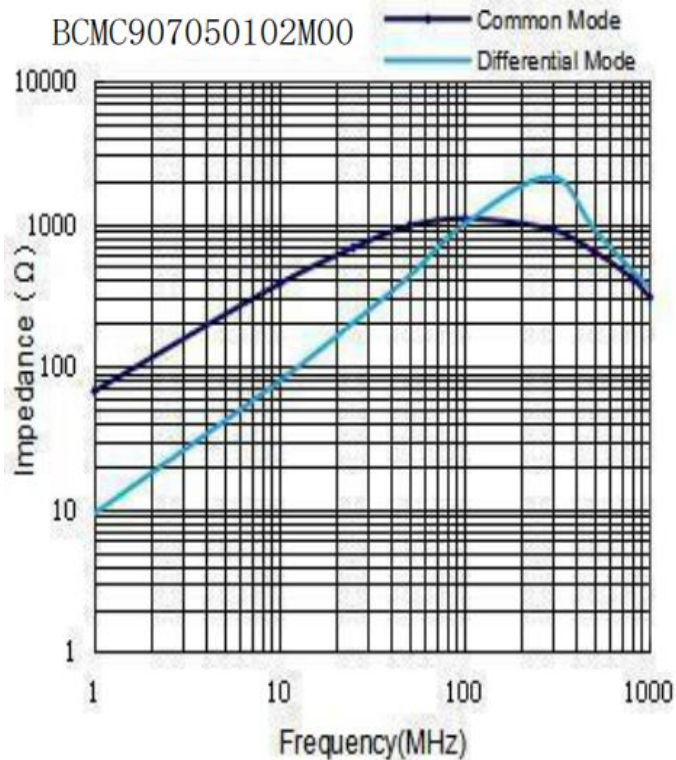
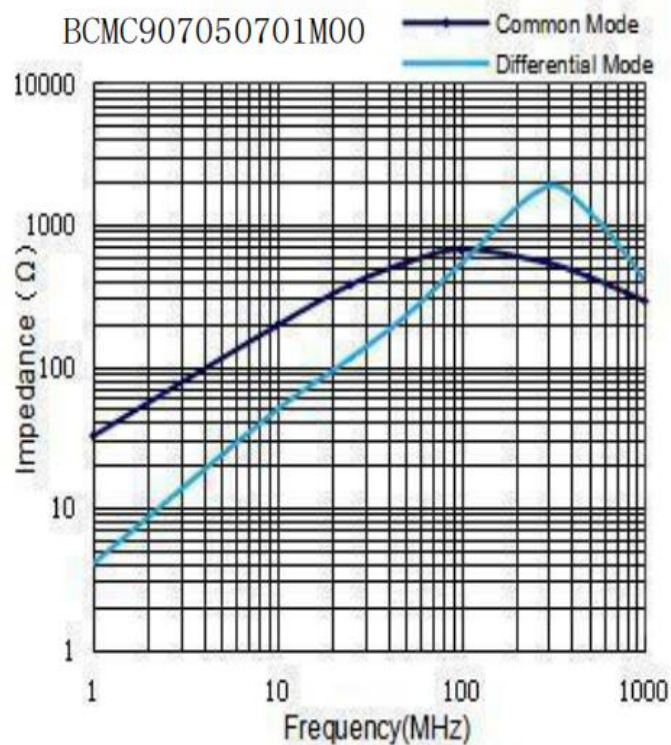
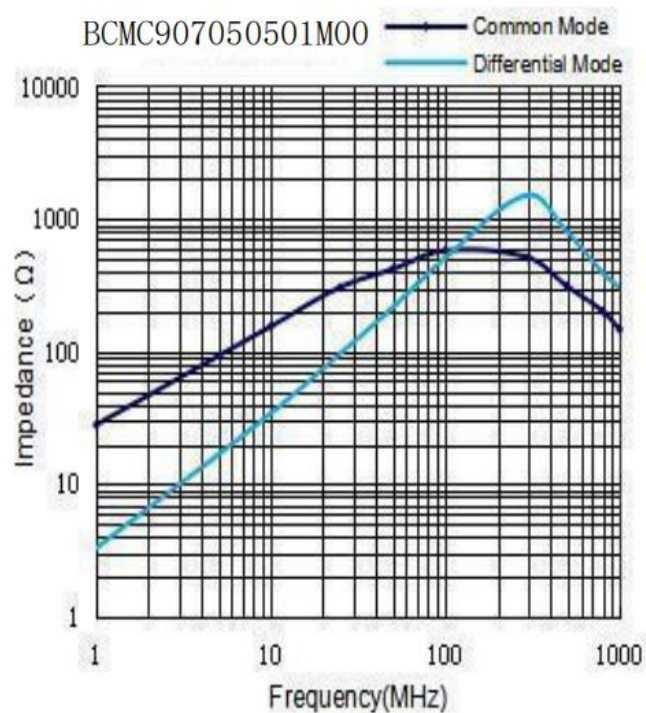
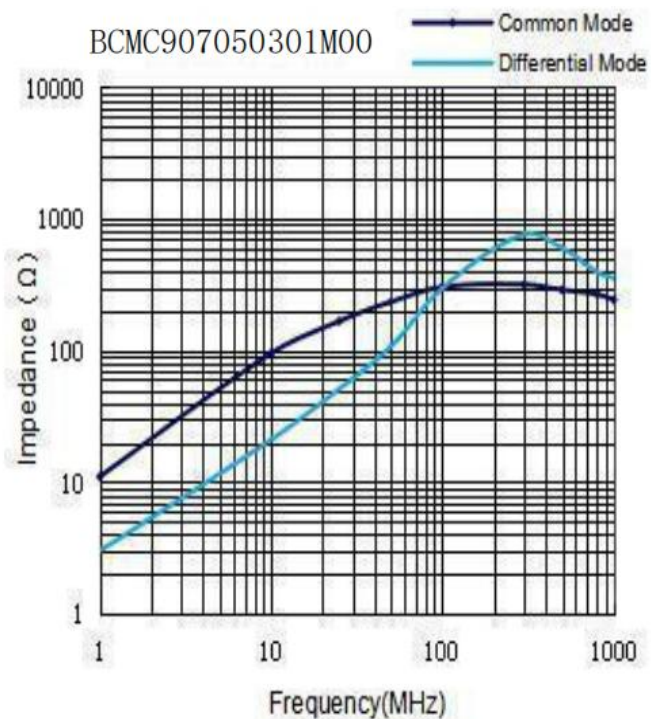
Rated Current: ΔT≦40℃ Typ

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Typical Electrical Characteristics

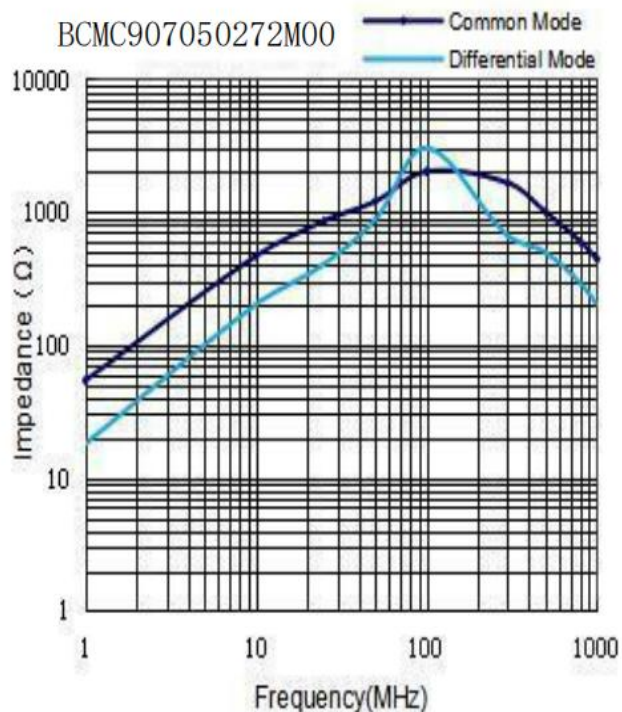
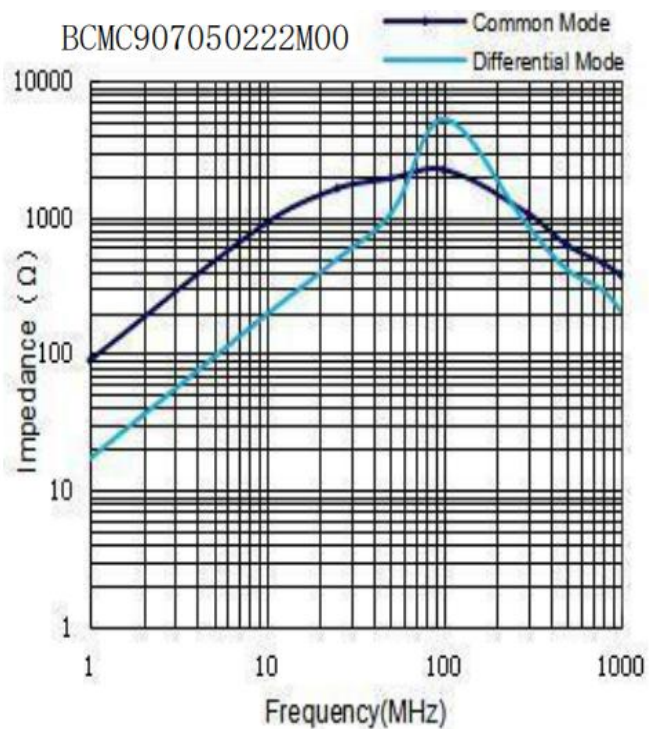
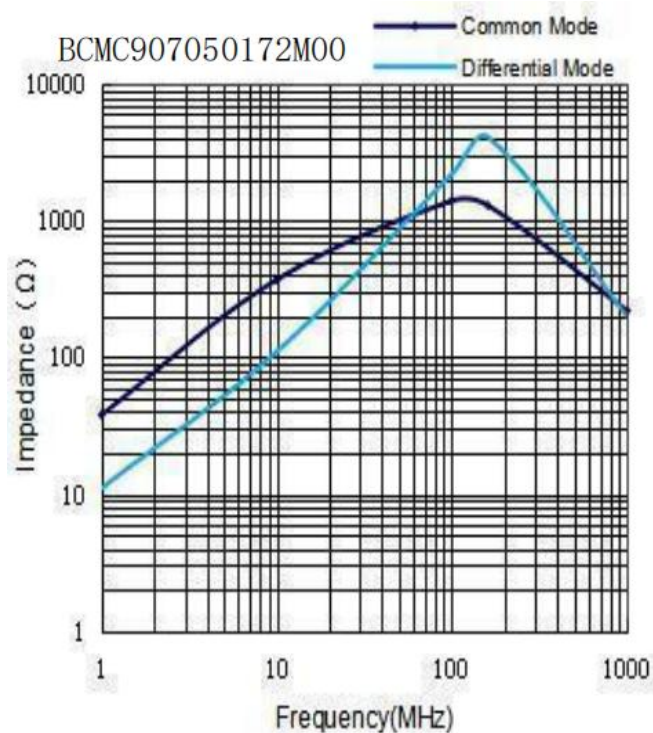
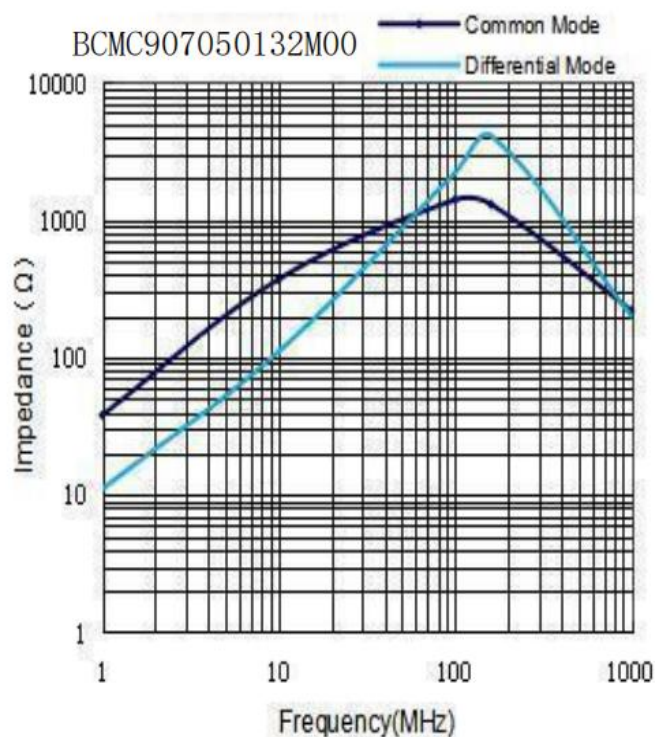


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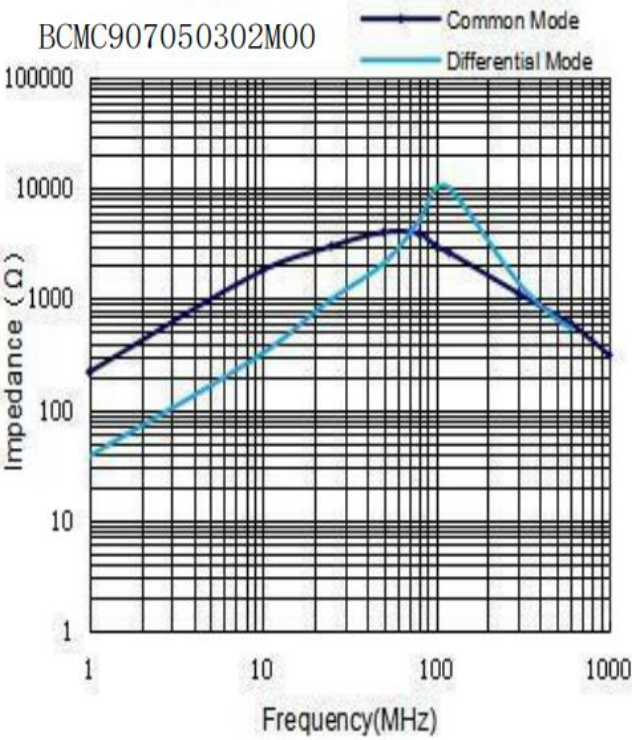


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6. Reliable Performance

TEST DATA FOR PREPRODUCTION SAMPLES (BCMC907050701M00)

MEAS. Item	Impedance (Ω)	DCR (mΩ)				A (mm)	B (mm)	C (mm)	
Spec	500 Min(700Typ)	10 Max				9.0±0.5	7.0±0.5	5.0Max	
Test Freq.	100MHz								
1	718	6.45				9.02	6.94	4.49	
2	733	6.65				8.99	7.00	4.51	
3	732	6.35				8.99	7.00	4.47	
4	704	6.42				8.99	6.93	4.48	
5	727	6.29				9.00	6.99	4.56	
6	701	6.35				8.97	6.95	4.47	
7	765	6.44				8.98	7.01	4.49	
8	724	6.42				9.01	7.01	4.47	
9	754	6.28				8.98	6.94	4.49	
10	738	6.4				9.00	7.01	4.47	
X	730	6.41				8.99	6.98	4.49	
R	64.0	0.37				0.05	0.08	0.09	

TEST INSTRUMENT:

Impedance 4287A

DCR GKT-502BC

PRODUCT SPECIFICATION

SPEC. NO.

C-2601-04

TEST DATA FOR PREPRODUCTION SAMPLES (BCMC907050102M00)

MEAS. Item	Impedance (Ω)	DCR (mΩ)				A (mm)	B (mm)	C (mm)	
Spec	750 Min (1000Typ)	13 Max				9.0±0.5	7.0±0.5	5.0Max	
Test Freq.	100MHz								
1	892	10.4				9.07	7.00	4.51	
2	871	10.5				9.07	6.94	4.49	
3	953	10.4				9.05	6.97	4.51	
4	904	10.2				9.05	6.99	4.49	
5	961	10.3				9.06	6.97	4.49	
6	928	10.1				9.04	7.04	4.47	
7	928	10				9.04	6.99	4.47	
8	916	10.5				9.05	6.93	4.47	
9	919	10.6				9.07	6.95	4.56	
10	954	10.6				9.03	6.95	4.49	
X	923	10.4				9.05	6.97	4.5	
R	90.0	0.6				0.04	0.11	0.09	

TEST INSTRUMENT:

Impedance 4287A

DCR GKT-502BC

PRODUCT SPECIFICATION

SPEC. NO.

C-2601-04

TEST DATA FOR PREPRODUCTION SAMPLES (BCMC907050222M00)

MEAS. Item	Impedance (Ω)	DCR (mΩ)				A (mm)	B (mm)	C (mm)	
Spec	1700 Min(2200Typ)	60 Max				9.0±0.5	7.0±0.5	5.0Max	
Test Freq.	100MHz								
1	2234	31.1				9.04	6.93	4.44	
2	2198	30.9				9.06	6.92	4.43	
3	2311	31.3				9.04	6.91	4.43	
4	2246	31.2				9.04	6.93	4.43	
5	2189	30.3				9.04	6.92	4.45	
6	2111	30.7				9.04	6.92	4.46	
7	2231	31.2				9.06	6.90	4.42	
8	2301	30.7				9.06	6.91	4.43	
9	2198	30.9				9.06	6.91	4.4	
10	2175	32.1				9.04	6.92	4.42	
X	2219	31.0				9.05	6.92	4.43	
R	200.0	1.8				0.02	0.03	0.06	

TEST INSTRUMENT:

Impedance 4287A

DCR GKT-502BC

PRODUCT SPECIFICATION

SPEC. NO.

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TEST DATA FOR PREPRODUCTION SAMPLES (BCMC907050272M00)

MEAS. Item	Impedance (Ω)	DCR (mΩ)				A (mm)	B (mm)	C (mm)	
Spec	2000 Min(2700Typ)	65 Max				9.0±0.5	7.0±0.5	5.0Max	
Test Freq.	100MHz								
1	2390	31.2				9.07	6.96	4.50	
2	2352	31.3				9.09	7.01	4.51	
3	2334	32.5				9.08	7.02	4.51	
4	2338	31.7				9.07	7.14	4.48	
5	2400	31.4				9.10	7.04	4.45	
6	2415	32.6				9.11	6.94	4.50	
7	2463	31.8				9.04	7.02	4.45	
8	2389	32.8				9.03	6.93	4.50	
9	2390	32.4				9.1	7.00	4.50	
10	2348	31.6				9.05	6.95	4.49	
X	2382	31.9				9.07	7.00	4.49	
R	129.0	1.6				0.08	0.21	0.06	

TEST INSTRUMENT:

Impedance 4287A

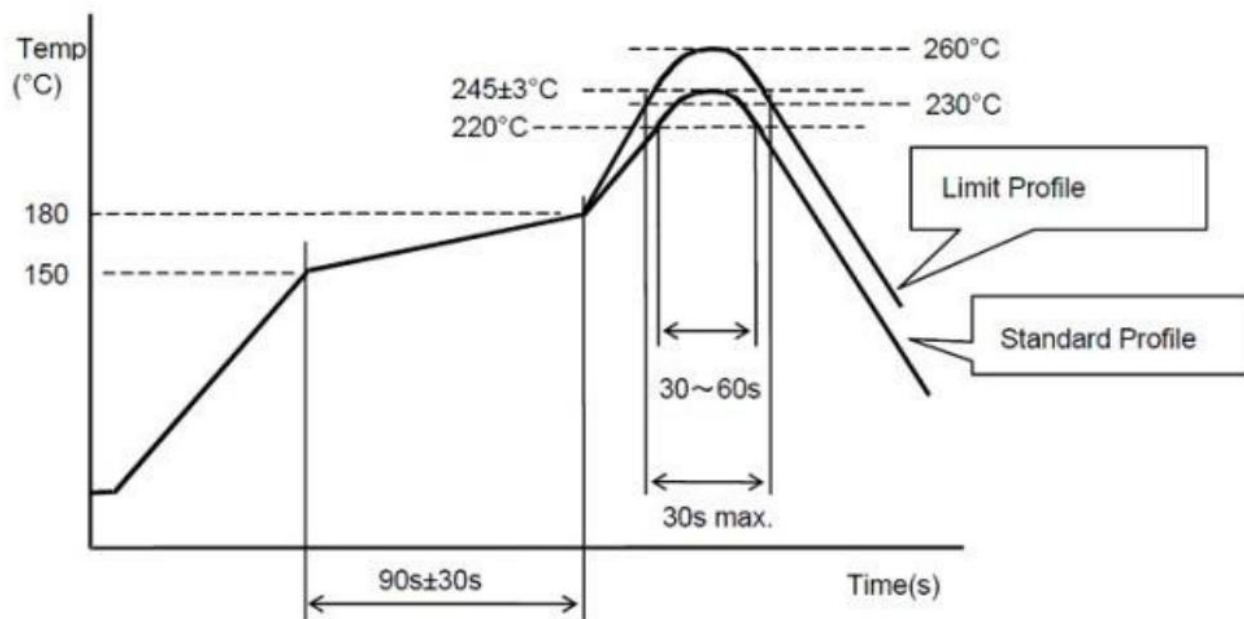
DCR GKT-502BC

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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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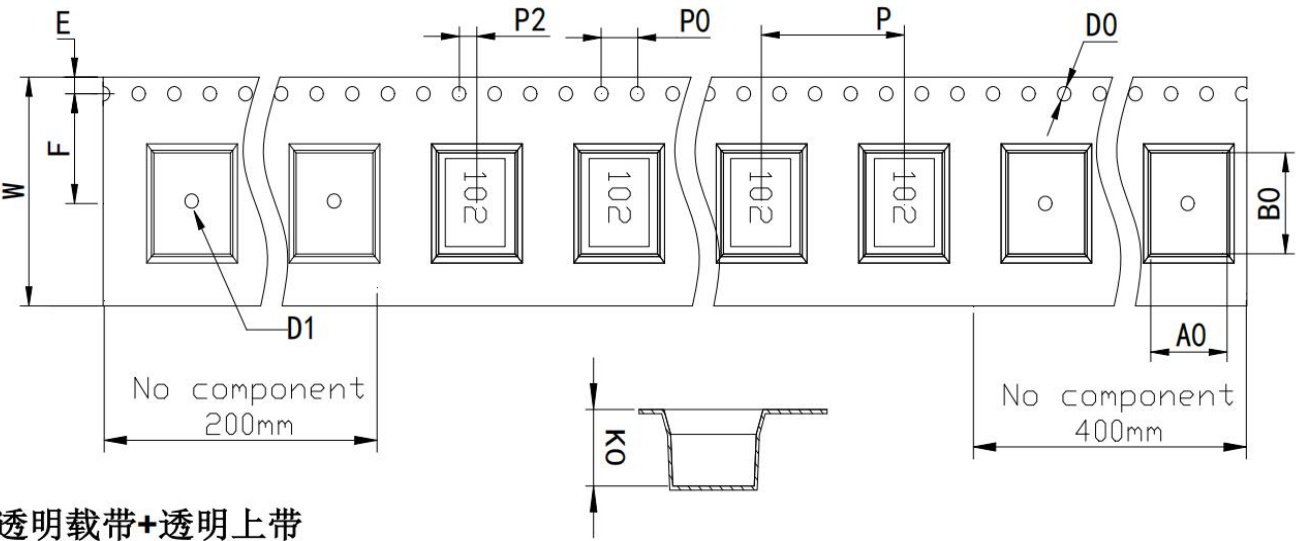
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8.Packaging

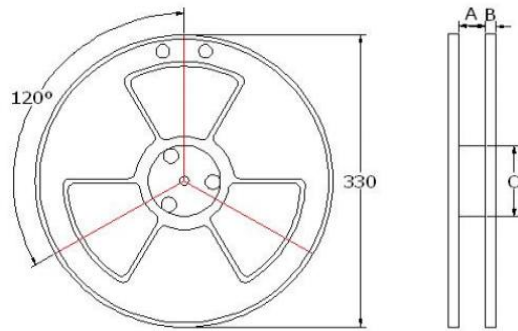
Carrier Tape (Unit:mm)



- W=24.0
- A0=7.6
- B0=9.6
- K0=5.1
- P=16.0
- P0=4.0
- P2=2.0
- F=11.5
- E=1.75
- D0=1.5
- D1=1.5

透明載帶+透明上帶

Reel (Unit:mm)



- A=24.5
- B=2.3

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(2) Packaging quantities

QTY

Reel(Pcs) 700

Middle Carton(Pcs) 700

Big Carton(Pcs) 3,500

N.W(Kg)

G.W(Kg)

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.