

Chip Bead *For High Current*

CIC Series- CIC10 (1608 EIA 0603)



The CIC Series can be used in high current owing to their low DC resistance.

They can match power lines to maximum of 3A DC

FEATURES

- Smallest beads used in high current.
(CIC: ~ 3A)

APPLICATION

- Suppression of noise in power line

SPECIFICATION

- Operating temperature range -55 to +125°C
- Storage temperature range -10 to +40°C
- Relative humidity 30 to 70%

PRODUCT IDENTIFICATION

<u>CI</u>	<u>C</u>	<u>10</u>	<u>P</u>	<u>080</u>	<u>N</u>	<u>C</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Chip Beads

(2) For High current(~3A)

(3) Dimension

(4) Material Code

P: Broad impedance, especially suppresses noise in the 10~200MHz range

J: Suppresses noise in the 100~300MHz range

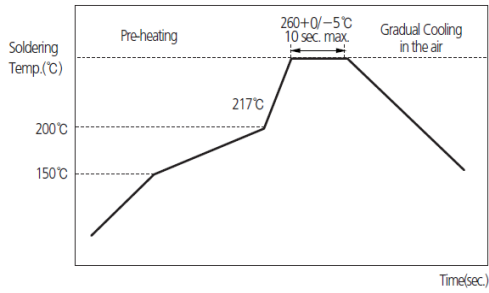
(5) Nominal impedance (080:8Ω,)

(6) Thickness option(N:Standard, A:Thinner than standard, B:Thicker than standard)

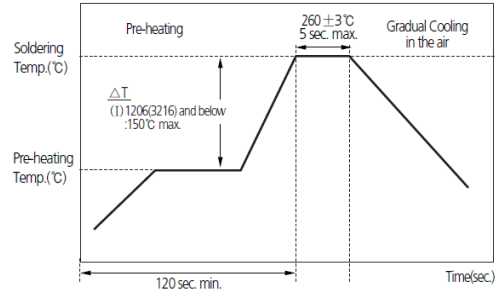
(7) Packaging(C:paper tape, E:embossed tape)

RECOMMENDED SOLDERING CONDITION

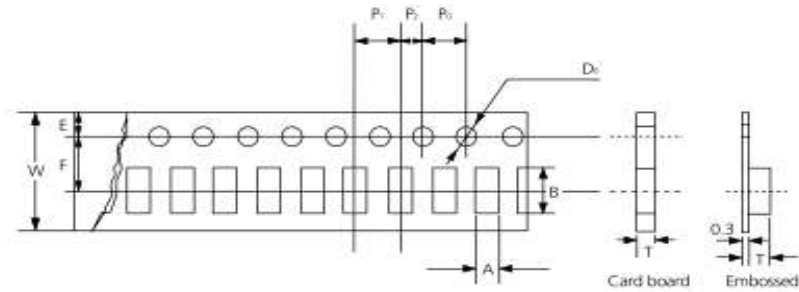
REFLOW SOLDERING



FLOW SOLDERING



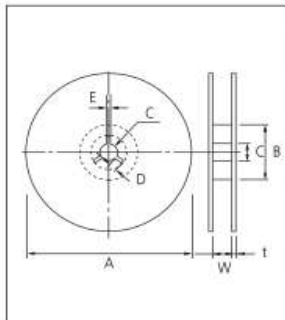
PACKAGING



Unit: mm

Type	03	05	10	21			22	31			32	41	43		
Tape	Card	Card	Card	Embossed			Card	Embossed			Card	Embossed	Embossed		
Chip Thickness	0.3	0.5	0.8	0.85	1.0	1.25	0.85	1.2	0.6	0.8	1.1	0.85	1.3	1.6 (1.2)	1.5
Chip Cavity	A	0.40 ±0.06	0.65 ±0.1	1.0 ±0.2	1.5 ±0.2	1.5 ±0.2	1.45 ±0.1	2.39 ±0.10	1.9 ±0.2	1.9 ±0.2	1.9 ±0.2	2.0 ±0.2	2.9 ±0.2	1.9 ±0.2	3.5 ±0.2
	B	0.70 ±0.06	1.15 ±0.1	1.8 ±0.2	2.3 ±0.2	2.3 ±0.2	2.4 ±0.2	2.79 ±0.10	3.6 ±0.2	3.6 ±0.2	3.6 ±0.2	3.6 ±0.2	4.9 ±0.2	4.9 ±0.2	4.9 ±0.2
T max	0.45	0.8	1.1	1.5	2.0	2.0	0.95 ±0.1	1.80 ±0.10	1.15	1.4	1.4	1.1	1.55	1.8	1.78
W	8 ±0.2	8 ±0.2	8 ±0.2	8 ±0.2	8 ±0.2	8 ±0.2	8.0 ±0.3	8.0 ±0.3	8 ±0.2	8 ±0.2	8 ±0.2	8 ±0.2	8 ±0.2	12 ±0.2	12 ±0.2
F	3.5 ±0.05	3.5 ±0.05	3.5 ±0.05	3.5 ±0.05	3.5 ±0.05	3.5 ±0.05	3.5 ±0.05	3.5 ±0.05	3.5 ±0.05	3.5 ±0.05	3.5 ±0.05	3.5 ±0.05	3.5 ±0.05	5.5 ±0.05	5.5 ±0.05
E	1.75 ±0.1	1.75 ±0.1	1.75 ±0.1	1.75 ±0.1	1.75 ±0.1	1.75 ±0.1	1.75 ±0.1	1.75 ±0.1	1.75 ±0.1	1.75 ±0.1	1.75 ±0.1	1.75 ±0.1	1.75 ±0.1	1.75 ±0.1	1.75 ±0.1
P ₁	2 ±0.05	2 ±0.05	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	8.0 ±0.1	8.0 ±0.1
P ₂	2 ±0.1	2 ±0.1	2 ±0.1	2 ±0.1	2 ±0.1	2 ±0.1	2.0 ±0.1	2.0 ±0.1	2 ±0.1	2 ±0.1	2 ±0.1	2 ±0.1	2 ±0.1	2 ±0.1	2 ±0.1
P ₃	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1	4.0 ±0.1
D _c	∅1.5 ±0.1	∅1.5 ±0.1	∅1.5 ±0.1	∅1.5 ±0.1	∅1.5 ±0.1	∅1.5 ±0.1	∅1.5 ±0.1	∅1.5 ±0.1	∅1.5 ±0.1	∅1.5 ±0.1	∅1.5 ±0.1	∅1.5 ±0.1	∅1.5 ±0.1	∅1.5 ±0.1	∅1.5 ±0.1
Quantity / Reel (PCS)	10,000 (15,000)	10,000	4,000	4,000	3,000	2,000	4,000	2,000	4,000	3,000	3,000	4,000	2,500	2,000 (5,000)	1,000

• Reel dimensions



Unit: mm

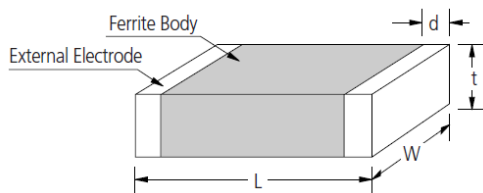
Symbol	Tape Width	A	B	C	D
7" Reel	8mm	∅180+0/-3	∅60+1/-0	∅13±0.3	4±0.2
	12mm	∅180+0/-3	∅60+1/-0	∅13±0.3	4±0.2
10" Reel	8mm	∅258+0/-3	∅80+1/-0	∅13±0.3	4±0.2
	12mm	∅258+0/-3	∅80+1/-0	∅13±0.3	4±0.2
13" Reel	8mm	∅330±2.0	∅80±1.0	∅13±0.3	4±0.2
	12mm	∅330±2.0	∅80±1.0	∅13±0.3	4±0.2

Symbol	Tape Width	E	W	t
7" Reel	8mm	2.0±0.5	9±0.5	1.2±0.2
	12mm	2.0±0.5	13±0.5	1.2±0.2
10" Reel	8mm	2.0±0.5	9±0.5	1.8±0.2
	12mm	2.0±0.5	13±0.5	1.8±0.2
13" Reel	8mm	2.0±0.5	9±0.5	2.2±0.2
	12mm	2.0±0.5	13±0.5	2.2±0.2

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1. Model : CIC1608 Type

2. Dimension

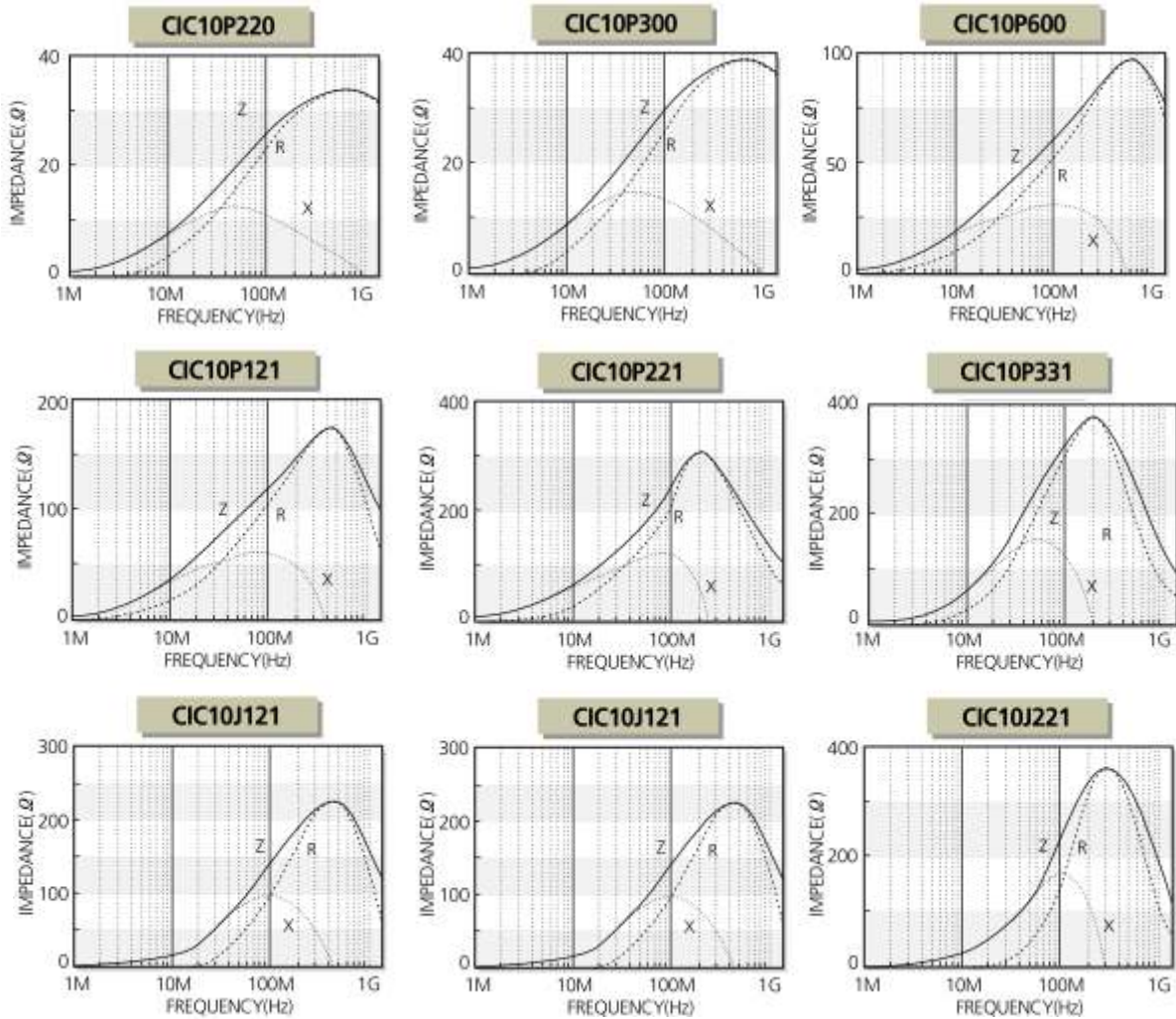


Type	Dimension [mm]			
	L	W	t	d
10	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2

3. Description

Part no.	Thickness (mm)	Impedance (Ω)±25%@100MHz	DC Resistance (Ω) Max.	Rated Current (mA) Max.
CIC10P080	0.80±0.15	8	0.02	3000
CIC10P220	0.80±0.15	22	0.025	3000
CIC10P300	0.80±0.15	30	0.025	3000
CIC10P600	0.80±0.15	60	0.05	2000
CIC10P121	0.80±0.15	120	0.05	2000
CIC10P181	0.80±0.15	180	0.09	1500
CIC10P221	0.80±0.15	220	0.09	1000
CIC10P301	0.80±0.15	300	0.15	750
CIC10P331	0.80±0.15	330	0.15	1200
CIC10J080	0.80±0.15	8	0.02	3000
CIC10J300	0.80±0.15	30	0.03	2000
CIC10J600	0.80±0.15	60	0.05	2000
CIC10J121	0.80±0.15	120	0.05	2000
CIC10J221	0.80±0.15	220	0.10	1500
CIC10J301	0.80±0.15	300	0.15	800
CIC10J471	0.80±0.15	470	0.15	800
CIC10J601	0.80±0.15	600	0.15	750

4. Characteristics data



■ NOTICE :All specifications are subject to change without previous notice. Please contact with product representatives or engineers to check specifications.