

FEATURES

Capacitance:0.5pF~1.0μF
 Voltage:50V~100V
 Operating temperature:-55°C~+125°C
 Epoxy molded, high physical strength

APPLICATIONS

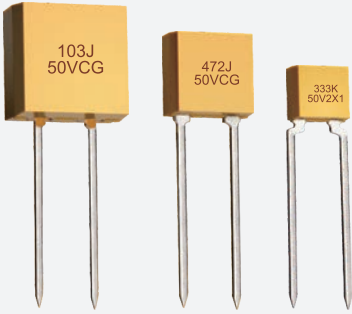
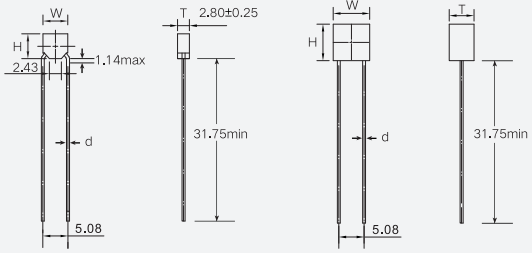
Typical applications include critical timing, tuning, decoupling, bypass,filtering, transient voltage suppression.

ORDERING INFORMATION

CCK4	07	CG	50V	103	J	Z	M	T
Series	Size Code	Dielectric	Rated Voltage	Capacitance Code(pf)	Capacitance Tolerance	Termination Finish	Failure Rate Level	Packaging
CCK4: Class I	05 06 07	CG BX	50V 100V	First two digits represent significant figures, Third digit specifies number of zeros. Example: 103=10000pF	C=±0.25pF D=±0.5pF F=±1% G=±2% J=±5% K=±10% M=±20%	Z=Tin /Lead solder plated (4%Pb minimum)	M=1.0% P=0.1%	T=Bulk
CTK4: Class II								

DIMENSIONS

Unit: mm

Appearance	Size Code	05	06	07
	W	4.83±0.25	7.37±0.25	10.16±0.25
	H	4.83±0.25	7.37±0.25	10.16±0.25
	T	2.80±0.25	3.81±0.25	5.60±0.25
	d	0.60±0.05	0.60±0.05	0.60±0.05
	Wire Form		a	b
				

ELECTRICAL CHARACTERISTICS

Item	Specification Limits	Measuring Conditions			
Operating Temperature Range	-55°C to +125°C	—			
Capacitance	Within specified tolerance	Dielectric	Item	Frequency	Voltage
Dissipation Factor	CG: $\text{tg } \delta \leq 0.15\%$; BX: $\text{tg } \delta \leq 2.5\%$;	CG	$C_r \leq 1000 \text{ pF}$	1.0 MHz $\pm 10\%$	1.0Vrms $\pm 0.2\text{V}$
			$C_r > 1000 \text{ pF}$	1.0 kHz $\pm 10\%$	
		BX	$C_r \leq 10 \mu\text{F}$	1.0kHz $\pm 10\%$	1.0Vrms $\pm 0.2\text{V}$
			$C_r > 10 \mu\text{F}$	120Hz $\pm 10\%$	
Insulation Resistance	100000M Ω or 1000M $\Omega \cdot \mu\text{F}$ whichever is less	Rated voltage applied for 2 minutes, charge and discharge current limited to 50mA (max).			
Dielectric Strength	No breakdown or visual defects	300% of DC rated voltage for 5 seconds, charge and discharge current limited to 50mA (max).			
Temperature Characteristics	Dielectric	0 Vdc Applied	Rated Voltage Applied		
	CG	(0 \pm 30)ppm/°C	(0 \pm 30)ppm/°C		
	BX	$\pm 15\%$	-25%~+15%		
		Capacitance change with reference to +25°C			

CAPACITANCE AND RATED VOLTAGE RANGE

CCK4

Size Code	05		06		07	
	50	100	50	100	50	100
0R5 1R0	CG	CG				
1R1 1R2	CG	CG				
1R3 1R5	CG	CG				
1R6 1R8	CG	CG				
2R0 2R2	CG	CG				
2R4 2R7	CG	CG				
3R0 3R3	CG	CG				
3R6 3R9	CG	CG				
4R3 4R7	CG	CG				
5R1 5R6	CG	CG				
6R2 6R8	CG	CG				
7R5 8R2	CG	CG				
9R1 100	CG	CG				
110 120	CG	CG				
130 150	CG	CG				
160 180	CG	CG				
200 220	CG	CG				
240 270	CG	CG				
300 330	CG	CG				
360 390	CG	CG				
430 470	CG	CG				
510 560	CG	CG				
620 680	CG	CG				
750 820	CG	CG				
910 101	CG	CG				
111 121	CG	CG				
131 151	CG	CG				
161 181	CG	CG				
201 221	CG	CG				
241 271	CG	CG				
301 331	CG	CG				
361 391	CG	CG				
431 471	CG	CG				
511 561	CG	CG				
621 681	CG	CG				
751 821	CG	CG				
911 102	CG	CG				
112 122	CG	CG				
132 152	CG	CG				
162 182	CG	CG				
202 222	CG	CG				
242 272	CG	CG	CG	CG		
302 332	CG	CG	CG	CG		
362 392	CG	CG	CG	CG		
432 472	CG	CG	CG	CG		
512 562	CG	CG	CG	CG	CG	
622 682	CG	CG	CG	CG	CG	
752 822	CG	CG	CG	CG	CG	
912 103	CG	CG	CG	CG	CG	
113 123			CG	CG	CG	CG
133 153			CG	CG	CG	CG
163 183			CG	CG	CG	CG
203 223			CG	CG	CG	CG
243 273			CG	CG	CG	CG
303 333			CG	CG	CG	CG
363 393			CG	CG	CG	CG
433 473			CG	CG	CG	CG
513 563			CG	CG	CG	CG
623 683			CG	CG	CG	CG
753 823			CG	CG	CG	CG
913 104			CG	CG	CG	CG

CG

CTK4

Size Code	05		06		07	
	50	100	50	100	50	100
101	CG					
121	CG					
151	CG					
181	CG					
221	CG					
271	CG					
331	CG					
391	CG					
471	CG					
561	CG					
681	CG					
821	CG					
102	CG	CG				
122	CG	CG				
152	CG	CG				
182	CG	CG				
222	CG	CG				
272	CG	CG				
332	CG	CG				
392	CG	CG				
472	CG	CG				
562	CG	CG				
682	CG	CG				
822	CG	CG				
103	CG	CG				
123	CG	CG				
153	CG	CG				
183	CG	CG				
223	CG	CG	CG	CG		
273	CG	CG	CG	CG		
333	CG	CG	CG	CG		
393	CG	CG	CG	CG		
473	CG	CG	CG	CG	CG	
563	CG	CG	CG	CG	CG	CG
683	CG	CG	CG	CG	CG	CG
823	CG	CG	CG	CG	CG	CG
104	CG	CG	CG	CG	CG	CG
124	CG	CG	CG	CG	CG	CG
154	CG	CG	CG	CG	CG	CG
184	CG	CG	CG	CG	CG	CG
224	CG	CG	CG	CG	CG	CG
274	CG	CG	CG	CG	CG	CG
334	CG	CG	CG	CG	CG	CG
394	CG	CG	CG	CG	CG	CG
474	CG	CG	CG	CG	CG	CG
564	CG	CG	CG	CG	CG	CG
684	CG	CG	CG	CG	CG	CG
824	CG	CG	CG	CG	CG	CG
105	CG	CG	CG	CG	CG	CG

CG BX