

CCK4 & CTK4 Series

FEATURES

- Capacitance ranging from 0.5pF to 1.0μF
- Voltage ratings of 50V - 100V
- Epoxy molded, high physical strength
- Operating temperature rang of -55°C to +125°C

APPLICATIONS

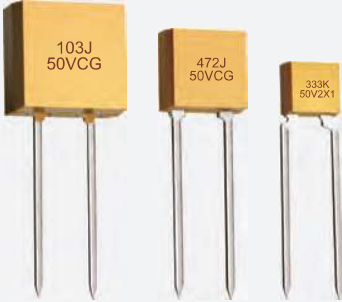
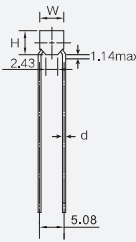

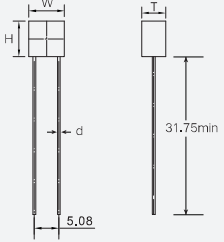
Typical applications include critical timing, tuning, decoupling, bypass, filtering, transient voltage suppression.

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
				

CCK4 & CTK4 Series

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 $\pm 10\%$	0,5Vrms $\pm 0,2\text{V}$
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			

CCK4 & CTK4 Series

CAPACITANCE AND RATED VOLTAGE RANGE

CCK4

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

CG

CTK4

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

BX