



Series: CX

Features

台积电科技有限公司
TAI RONG SMC TECHNOLOGY CO.,LTD.

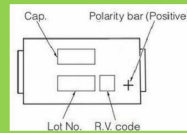


- High voltage (35 V.DC max.)
- Low profile (Height 1.0 mm max.)
- High ripple current (5600 mAr.m.s.max.)
- RoHS compliance,Halogen free

Specifications

Series	CX			
Category temp.range	-55 °C to +105 °C			
Rated voltage range	4 V.DC to 35 V.DC		2 V.DC to 35 V.DC	
Nominal cap.range	10 μF to 120 μF	15 μF to 180 μF	15 μF to 560 μF	
Capacitance tolerance	±20%(120 Hz/+20°C)			
DC leakage current	I ≤ 0.1CV (μA) [2 V.DC to 6.3 V.DC, 2 minutes], I ≤ 0.3 CV (μA) [10 V.DC to 35 V.DC, 2 minutes]			
Dissipation factor (tan δ)	≤ 0.06(120 Hz/+20°C)			
Surge voltage (V.DC)	Rated voltage×1.25 [2 V.DC to 16 V.DC], ×1.15 [20 V.DC to 35 V.DC] (15°C to 35 °C)			
Endurance	+105 °C, 2000 h, rated voltage applied			
	Capacitance change	Within ±20 % of the initial value		
	tan δ	≤ 2 times of the initial limit		
	DC leakage current	2 V.DC to 6.3 V.DC : ≤ 3 times of the initial limit 10 V.DC to 35 V.DC : Within the initial limit		
Damp heat (Steady state)	+60°C, 90%, 500 h, No-applied voltage			
	Capacitance change of initial measured value	2 V.DC to 2.5 V.DC : +70 %, -20 %	4 V.DC, 10 V.DC to 35 V.DC : +60 %, -20 %	6.3 V.DC : +50 %, -20 %
	tan δ	≤ 2 times of the initial limit		
	DC leakage current	2 V.DC to 6.3 V.DC : Within the initial limit 10 V.DC to 35 V.DC : ≤ 3 times of the initial limit		

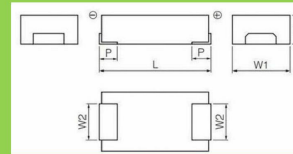
Marking



Rated voltage mark

	d	e	g			
	2 V.DC	2.5 V.DC	4 V.DC	D	E	V
		A	C	6.3 V.DC	10 V.DC	16 V.DC
				20 V.DC	25 V.DC	35 V.DC

Dimensions(not to scale)



Unit:mm

Series	L±0.2	W1±0.2	W2±0.1	H±0.1	P±0.3
CX	7.3	4.3	2.4	1.9	1.3

*Externals of Figure are the reference.

Design and specifications are each subject to change without notice.Asfactory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product,please be sure to contact us immediately.

TRSMC

Rated voltage (V, DC)	Capacitance (±20%) (μF)	Case size (mm)			Specification		Part number	Min*4 Packaging Qty (pcs)	Min*5 Packaging Qty (pcs)
		L	W	H	Ripple Current	ESR			
					(mA)	(mΩ max.)			
2	220	7.3	4.3	1.9	5100	15	EEFCX0D221R	3500	750
	270	7.3	4.3	1.9	5600	12	EEFCX0D271XR	3500	750
	330	7.3	4.3	1.9	5100	15	EEFCX0D331R	3500	750
		7.3	4.3	1.9	5600	12	EEFCX0D331XR	3500	750
	390	7.3	4.3	1.9	5100	15	EEFCX0D391R	3500	750
	470	7.3	4.3	1.9	5100	15	EEFCX0D471R	3500	750
	560	7.3	4.3	1.9	5100	15	EEFCX0D561R	3500	750
2.5	220	7.3	4.3	1.9	5100	15	EEFCX0E221R	3500	750
	330	7.3	4.3	1.9	5100	15	EEFCX0E331R	3500	750
	390	7.3	4.3	1.9	5100	15	EEFCX0E391R	3500	750
	470	7.3	4.3	1.9	5100	15	EEFCX0E471R	3500	750
4	150	7.3	4.3	1.9	5100	15	EEFCX0G151R	3500	750
	180	7.3	4.3	1.9	5100	15	EEFCX0G181R	3500	750
		7.3	4.3	1.9	5600	12	EEFCX0G181XR	3500	750
	220	7.3	4.3	1.9	5100	15	EEFCX0G221R	3500	750
	270	7.3	4.3	1.9	5600	12	EEFCX0G221XR	3500	750
	270	7.3	4.3	1.9	5100	15	EEFCX0G271R	3500	750
	330	7.3	4.3	1.9	5100	15	EEFCX0G331R	3500	750
6.3	100	7.3	4.3	1.9	5100	15	EEFCX0J101R	3500	750
	120	7.3	4.3	1.9	5100	15	EEFCX0J121R	3500	750
	150	7.3	4.3	1.9	5100	15	EEFCX0J151R	3500	750
		7.3	4.3	1.9	5600	12	EEFCX0J151XR	3500	750
	180	7.3	4.3	1.9	5100	15	EEFCX0J181R	3500	750
	220	7.3	4.3	1.9	5100	15	EEFCX0J221R	3500	750
10	220	7.3	4.3	1.9	5100	15	EEFCX0J221YR	3500	750
	47	7.3	4.3	1.9	3200	40	EEFCX1A470R	3500	750
	68	7.3	4.3	1.9	3200	40	EEFCX1A680R	3500	750
	100	7.3	4.3	1.9	3200	40	EEFCX1A101R	3500	750
16	15	7.3	4.3	1.9	3200	40	EEFCX1C150R	3500	750
	22	7.3	4.3	1.9	3200	40	EEFCX1C220R	3500	750
	33	7.3	4.3	1.9	3200	40	EEFCX1C330R	3500	750
	47	7.3	4.3	1.9	3200	40	EEFCX1C470R	3500	750
	68	7.3	4.3	1.9	3200	40	EEFCX1C680R	3500	750
20	22	7.3	4.3	1.9	3200	40	EEFCX1D220R	3500	750
	33	7.3	4.3	1.9	3200	40	EEFCX1D330R	3500	750
	47	7.3	4.3	1.9	3200	40	EEFCX1D470R	3500	750
	56	7.3	4.3	1.9	3200	40	EEFCX1D560R	3500	750
25	15	7.3	4.3	1.9	3200	40	EEFCX1E150R	3500	750
	22	7.3	4.3	1.9	3200	40	EEFCX1E220R	3500	750
	33	7.3	4.3	1.9	3200	40	EEFCX1E330R	3500	750
35	15	7.3	4.3	1.9	3200	40	EEFCX1V150R	3500	750
	22	7.3	4.3	1.9	3200	40	EEFCX1V220R	3500	750

1:Ripple current (100 kHz/+45°C),*2:ESR(100 kHz/+20°C)
 3:Please refer to the page of "Mounting Specifications".
 *4:Please contact us when 500 pcs packing is necessary.

Temperature compensation multipliers for ripple current				
	Temp.	T≤45℃	45℃<T≤85℃	85℃<T≤105℃
2 V, DC to 6.3 M, DC	Coefficient	1.0	0.7	0.25
		1.0	0.8	0.5

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