

Surface Mount Type **SP-Cap**

Series: **CX** (Standard Products)

■ Features

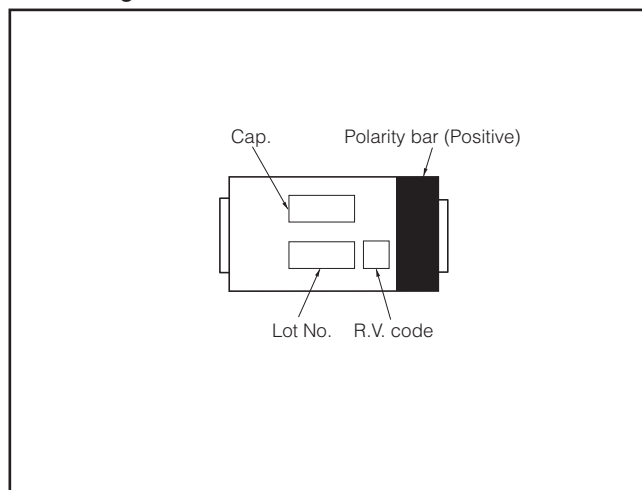
- Large capacitance (560μF max.)
- ESR (12 mΩ, 15 mΩ)
- RoHS directive compliant



■ Specifications

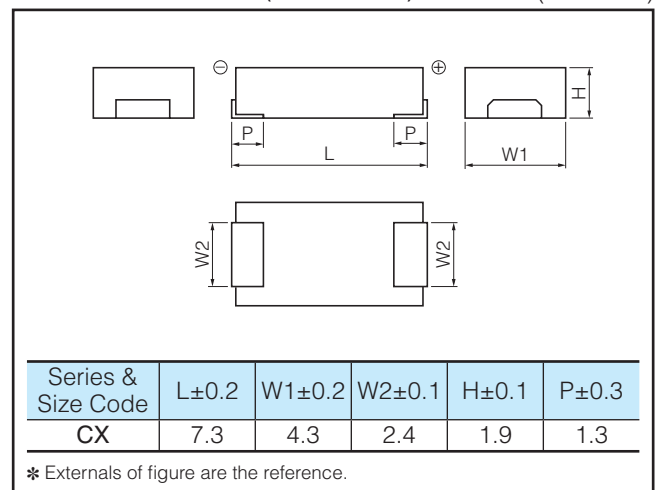
Series & Size Code	CX			
Category Temp. Range	-55 °C to +105 °C			
Rated Voltage Range	2 V.DC to 6.3 V.DC			
Nominal Cap.Range	100 μF to 560 μF			
Capacitance Tolerance	±20 % (120 Hz/+20 °C)			
DC Leakage Current	I ≤ 0.1 CV (μA) 2 minutes			
tan δ	≤ 0.06 (120 Hz/+20 °C)			
Surge Voltage	Rated Voltage × 1.25 (15 °C to 35 °C)			
Endurance	After applying rated voltage for 2000 hours at 105 °C±2 °C, and then being stabilized at +20 °C, capacitor shall meet the following limits.			
	Capacitance change	±20% of initial measured value		
	tan δ	≤ 200 % of initial specified value		
	DC leakage current	≤ 300 % of initial specified value		
Moisture resistance	After storing for 500 hours at 60 °C, 90 %			
	Capacitance change of initial measured value	2, 2.5 V.DC	4 V.DC	6.3 V.DC
		+70, -20 %	+60, -20 %	+50, -20 %
	tan δ	≤ 200 % of initial specified value		
	DC leakage current	≤ Initial specified value		

■ Marking



■ Dimensions in mm(not to scale)

(Unit : mm)



■ Standard Products

Reflow *3 <Standard>

Series & Size Code	Rated Voltage (V.DC)	Capacitance (±20 %) (μF)	Case Size			Specification		Part number	*4 Min. Packaging Q'ty (pcs)
			L (mm)	W (mm)	H (mm)	*1 Ripple current (Ar.m.s.)	*2 ESR (mΩ max.)		
CX	2	220	7.3	4.3	1.9	5.1	15	EEFCX0D221R	3500
		270	7.3	4.3	1.9	5.6	12	EEFCX0D271XR	3500
		330	7.3	4.3	1.9	5.1	15	EEFCX0D331R	3500
			7.3	4.3	1.9	5.6	12	EEFCX0D331XR	3500
		390	7.3	4.3	1.9	5.1	15	EEFCX0D391R	3500
		470	7.3	4.3	1.9	5.1	15	EEFCX0D471R	3500
		560	7.3	4.3	1.9	5.1	15	EEFCX0D561R	3500
	2.5	220	7.3	4.3	1.9	5.1	15	EEFCX0E221R	3500
		330	7.3	4.3	1.9	5.1	15	EEFCX0E331R	3500
		390	7.3	4.3	1.9	5.1	15	EEFCX0E391R	3500
		470	7.3	4.3	1.9	5.1	15	EEFCX0E471R	3500
	4	150	7.3	4.3	1.9	5.1	15	EEFCX0G151R	3500
			7.3	4.3	1.9	5.1	15	EEFCX0G181R	3500
		180	7.3	4.3	1.9	5.6	12	EEFCX0G181XR	3500
			7.3	4.3	1.9	5.1	15	EEFCX0G221R	3500
		220	7.3	4.3	1.9	5.6	12	EEFCX0G221XR	3500
			270	7.3	4.3	1.9	5.1	15	EEFCX0G271R
		330	7.3	4.3	1.9	5.1	15	EEFCX0G331R	3500
	6.3	100	7.3	4.3	1.9	5.1	15	EEFCX0J101R	3500
		120	7.3	4.3	1.9	5.1	15	EEFCX0J121R	3500
		150	7.3	4.3	1.9	5.1	15	EEFCX0J151R	3500
			7.3	4.3	1.9	5.6	12	EEFCX0J151XR	3500
		180	7.3	4.3	1.9	5.1	15	EEFCX0J181R	3500
		220	7.3	4.3	1.9	5.1	15	EEFCX0J221R	3500

*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		
T ≤ 45 °C	45 °C < T ≤ 85 °C	85 °C < T ≤ 105 °C
1.0	0.7	0.25