#### **Surface Mount Type** SP-Cap

Series: SX (Low ESR Products)

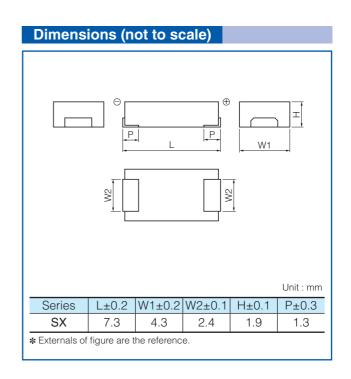


#### **Features**

- Large capacitance (560 µF max.)
- Low ESR (4.5 m $\Omega$  to 9 m $\Omega$ )
- High ripple current (8500 mAr.m.s. max.)
- RoHS compliance, Halogen free

Specifications						
Series	SX					
Category temp. range	−55 °C to +105 °C					
Rated voltage range	2 V.DC to 6.3 V.DC					
Nominal cap.range	82 μF to 560 μF					
Capacitance tolerance	±20 % (120 Hz/+20 °C)					
DC leakage current	l ≤ 0.1 CV (μA) 2 minutes					
Dissipation factor (tan $\delta$ )	≤ 0.06 (120 Hz/+20 °C)					
Surge voltage (V.DC)	Rated voltage × 1.25 (15 °C to 35 °C)					
	+105 °C, 2000 h, rated voltage applied					
Endurance	Capacitance change	ange Within ±20 % of the initial value				
Lituurance	tan $\delta$	≤ 2 times of the initial limit				
	DC leakage current	OC leakage current ≤ 3 times of the initial limit				
	+60 °C, 90 %, 500 h, No-applied voltage					
Domp boot	Capacitance change of	2 to 2.5 V.DC	4 V.DC	6.3 V.DC		
Damp heat (Steady state)	initial measurd value	+70 %, -20 %	+60 %, -20 %	+50 %, -20 %		
(Gloddy Glalo)	tan $\delta$	≤ 2 times of the initial limit				
	DC leakage current	nt Within the initial limit				

### Marking Cap Polarity bar (Positive) R.V. code Lot No Rated voltage mark 2 V.DC d 2.5 V.DC е 4 V.DC g 6.3 V.DC





# **Conductive Polymer Aluminum Electrolytic Capacitors**

#### **Characteristics list**

	CHStios							Reflow *3	<standard></standard>
			Case size (mm)		Specification			Min.*4	
0 1	Rated	Capacitance			,	*1	*2	5	Packaging
Series	voltage (V.DC)	(±20 %) (µF)	L	W	Н	Ripple	ESR	Part number	Q'ty
	( v.DC)	(μι )				current (mAr.m.s.)	$(m\Omega max.)$		(pcs)
		180	7.3	4.3	1.9	6300	9	EEFSX0D181ER	3500
		220	7.3	4.3	1.9	6300	9	EEFSX0D221ER	3500
			7.3	4.3	1.9	6300	9	EEFSX0D271ER	3500
2		270	7.3	4.3	1.9	7500	6	EEFSX0D271XE	3500
			7.3	4.3	1.9	8500	4.5	EEFSX0D271E4	3500
			7.3	4.3	1.9	6300	9	EEFSX0D331ER	3500
		330	7.3	4.3	1.9	7500	6	EEFSX0D331XE	3500
	2		7.3	4.3	1.9	8500	4.5	EEFSX0D331E4	3500
			7.3	4.3	1.9	6300	9	EEFSX0D391ER	3500
		390	7.3	4.3	1.9	7500	6	EEFSX0D391XE	3500
			7.3	4.3	1.9	8500	4.5	EEFSX0D391E4	3500
			7.3	4.3	1.9	6300	9	EEFSX0D471ER	3500
		470	7.3	4.3	1.9	7500	6	EEFSX0D471XE	3500
			7.3	4.3	1.9	8500	4.5	EEFSX0D471E4	3500
		560	7.3	4.3	1.9	8500	4.5	EEFSX0D561E4	3500
		150	7.3	4.3	1.9	6300	9	EEFSX0E151ER	3500
	2.5	180	7.3	4.3	1.9	6300	9	EEFSX0E181ER	3500
		220	7.3	4.3	1.9	6300	9	EEFSX0E221ER	3500
			7.3	4.3	1.9	7000	7	EEFSX0E221E7	3500
		270	7.3	4.3	1.9	7000	7	EEFSX0E271E7	3500
SX		330	7.3	4.3	1.9	6300	9	EEFSX0E331ER	3500
			7.3	4.3	1.9	7500	6	EEFSX0E331XE	3500
		390	7.3	4.3	1.9	8500	4.5	EEFSX0E331E4	3500
			7.3	4.3	1.9	6300	9	EEFSX0E391ER	3500
			7.3	4.3	1.9	7500	6	EEFSX0E391XE	3500
			7.3	4.3	1.9	8500	4.5	EEFSX0E391E4	3500
		470	7.3	4.3	1.9	6300	9	EEFSX0E471ER	3500
			7.3	4.3	1.9	7500	6	EEFSX0E471XE	3500
			7.3	4.3 4.3	1.9 1.9	8500 6300	4.5 9	EEFSX0E471E4 EEFSX0G820ER	3500 3500
	4 NEV	82	7.3	4.3	1.9	6300	9	EEFSX0G101ER	3500
		100	7.3	4.3	1.9	6300	9	EEFSX0G101ER EEFSX0G151ER	3500
			7.3	4.3	1.9	7000	7	EEFSX0G151ER EEFSX0G151E7	3500
		180	7.3	4.3	1.9	6300	9	EEFSX0G181ER	3500
		220	7.3		1.9	-	9		3500
		270	7.3	4.3	1.9	6300 6300	9	EEFSX0G221ER EEFSX0G271ER	3500
			7.3	4.3	1.9	6300	9	EEFSX0G271ER EEFSX0G331ER	3500
		T 330 F	7.3	4.3	1.9	7500	6	EEFSX0G331XE	3500
	NEV	120	7.3	4.3	1.9	7000	7	EEFSX0J121E7	3500
		150	7.3	4.3	1.9	6300	9	EEFSX0J121E7 EEFSX0J151ER	3500
	6.3	180	7.3	4.3	1.9	6300	9	EEFSX0J181ER	3500
	NEV		7.3	4.3	1.9	6300	9	EEFSX0J161ER EEFSX0J221ER	3500
1. Dipple curre					1.3	0300	J	LLI UNUJZZIEN	3300

<sup>\*1:</sup> Ripple current (100 kHz/ +45°C), \*2: ESR (100 kHz/+20 °C)

<sup>\*4:</sup> Please contact us when 500 pcs packing is necessary.

Temperature compensation multipliers for ripple current								
Temp.	T ≦ 45 °C	45 °C < T ≦ 85 °C	85 °					

Temp.	T ≦ 45 °C	45 °C < T ≦ 85 °C	85 °C < T ≦ 105 °C			
Coefficient	1.0	0.7	0.25			

<sup>\*3:</sup> Please refer to the page of "Mounting Specifications".

## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

### Panasonic:

EEF-SX0G331ER EEF-SX0G331XE EEF-SX0J221ER