

Surface Mount Type

Series: **SX**

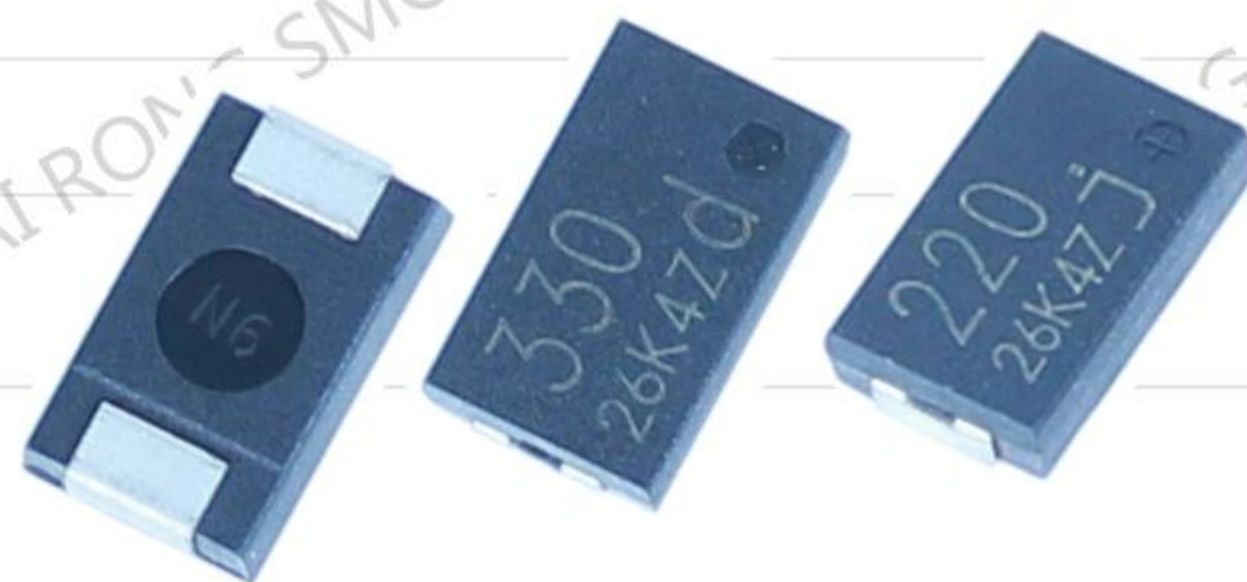
Features

- Large capacitance (560 μ F max.)
- Low ESR (4.5m Ω to 9 m Ω)
- High ripple current(8500 mAr.m.s.max.)
- RoHS compliance, Halogen free

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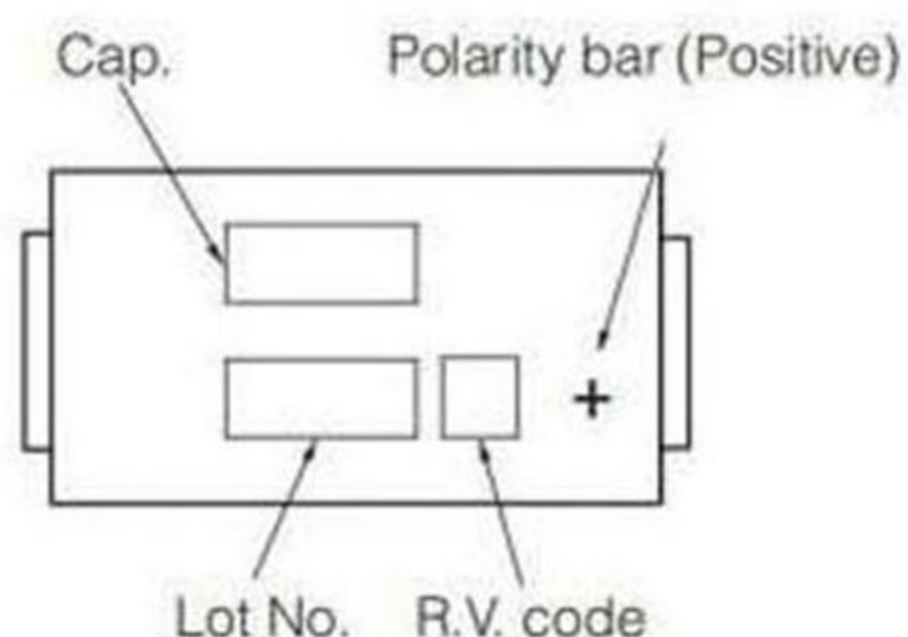
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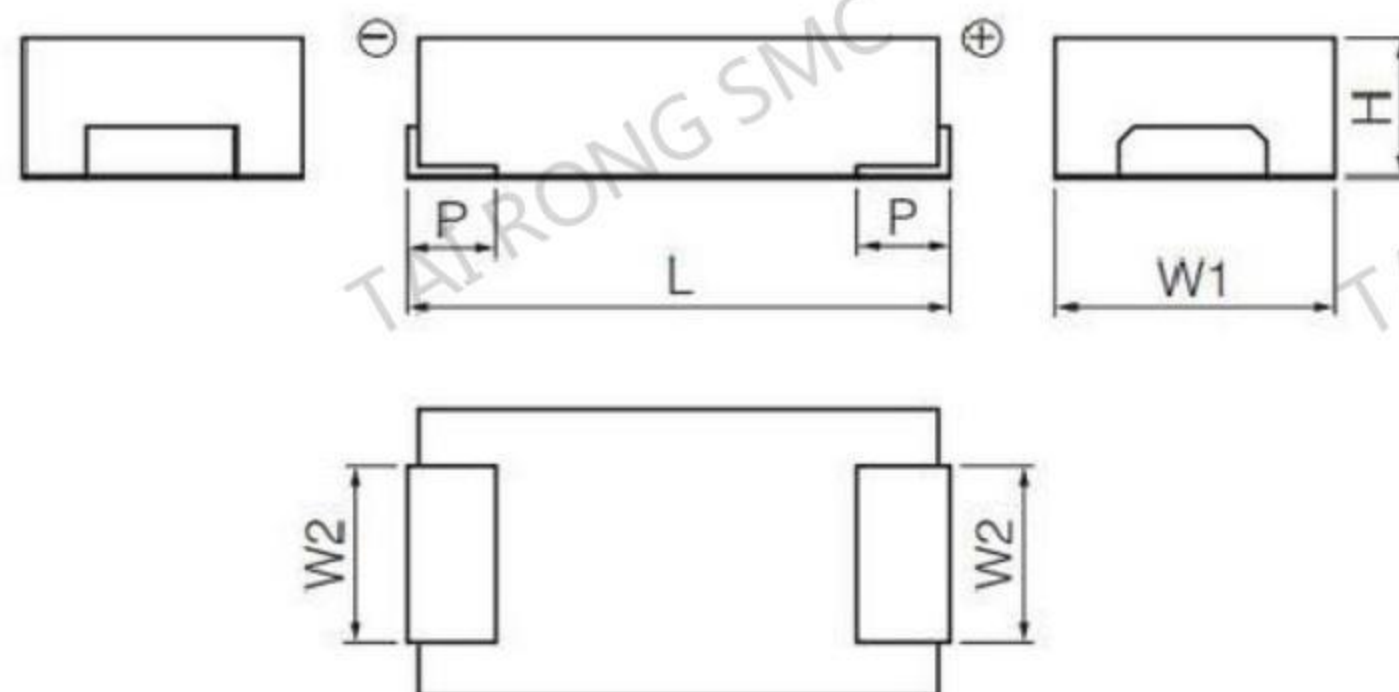
Specifications

Series	SX			
Category temp. range	-55 $^{\circ}$ C to +105 $^{\circ}$ C			
Rated voltage range	2 V. DC to 6.3 V. DC			
Nominal cap. range	82 μ F to 560 μ F			
Capacitance tolerance	\pm 20% (120 Hz/+20 $^{\circ}$ C)			
DC leakage current	$I \leq 0.1$ CV (μ A) 2 minutes			
Dissipation factor (tan δ)	≤ 0.06 (120 Hz/+20 $^{\circ}$ C)			
Surge voltage (V. DC)	Rated voltage \times 1.25 (15 $^{\circ}$ C to 35 $^{\circ}$ C)			
Endurance	+105 $^{\circ}$ C, 2000 h, rated voltage applied			
	Capacitance change	Within \pm 20% of the initial value		
	tan δ	≤ 2 times of the initial limit		
	DC leakage current	≤ 3 times of the initial limit		
Damp heat (Steady state)	+60 $^{\circ}$ C, 90%, 500 h, No-applied voltage			
	Capacitance change of initial measured value	2 to 2.5 V. DC	4 V. DC	6.3 V. DC
		+70%, -20%	+60%, -20%	+50%, -20%
	tan δ	≤ 2 times of the initial limit		
DC leakage current	Within the initial limit			

Marking



Dimensions(not to scale)



Rated voltage mark

d	2 V. DC
e	2.5 V. DC
g	4 V. DC
j	6.3 V. DC

Series	L \pm 0.2	W1 \pm 0.2	W2 \pm 0.1	H \pm 0.1	P \pm 0.3
SX	7.3	4.3	2.4	1.9	1.3

Unit:mm

*Externals of figure are the reference.

Design and specifications are each subject to change without notice. Ask factory 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.

07 Mar.2023

Characteristics list

Reflow*3 <Standard>

Series	Rated voltage (V. DC)	Capacitance ($\pm 20\%$) (μF)	Case size (mm)			Specification		Part number	Min. *4 Packaging Q' ty (pcs)
			L	W	H	*1 Ripple current (mAr. m. s.)	*2 ESR (m2 max.)		
SX	2	180	7.3	4.3	1.9	6300	9	EEFSXOD181ER	3500
		220	7.3	4.3	1.9	6300	9	EEFSXOD221ER	3500
		270	7.3	4.3	1.9	6300	9	EEFSXOD271ER	3500
			7.3	4.3	1.9	7500	6	EEFSXOD271XE	3500
		330	7.3	4.3	1.9	8500	4.5	EEFSXOD271E4	3500
			7.3	4.3	1.9	6300	9	EEFSXOD331ER	3500
			7.3	4.3	1.9	7500	6	EEFSXOD331XE	3500
		390	7.3	4.3	1.9	8500	4.5	EEFSXOD331E4	3500
			7.3	4.3	1.9	6300	9	EEFSXOD391ER	3500
			7.3	4.3	1.9	7500	6	EEFSXOD391XE	3500
		470	7.3	4.3	1.9	8500	4.5	EEFSXOD391E4	3500
			7.3	4.3	1.9	6300	9	EEFSXOD471ER	3500
	7.3		4.3	1.9	7500	6	EEFSXOD471XE	3500	
	560	7.3	4.3	1.9	8500	4.5	EEFSXOD471E4	3500	
		7.3	4.3	1.9	8500	4.5	EEFSXOD561E4	3500	
		150	7.3	4.3	1.9	6300	9	EEFSXOE151ER	3500
	2.5	180	7.3	4.3	1.9	6300	9	EEFSXOE181ER	3500
			7.3	4.3	1.9	6300	9	EEFSXOE221ER	3500
		220	7.3	4.3	1.9	7000	7	EEFSXOE221E7	3500
			7.3	4.3	1.9	7000	7	EEFSXOE271E7	3500
		330	7.3	4.3	1.9	6300	9	EEFSXOE331ER	3500
			7.3	4.3	1.9	7500	6	EEFSXOE331XE	3500
			7.3	4.3	1.9	8500	4.5	EEFSXOE331E4	3500
		390	7.3	4.3	1.9	6300	9	EEFSXOE391ER	3500
			7.3	4.3	1.9	7500	6	EEFSXOE391XE	3500
			7.3	4.3	1.9	8500	4.5	EEFSXOE391E4	3500
		470	7.3	4.3	1.9	6300	9	EEFSXOE471ER	3500
			7.3	4.3	1.9	7500	6	EEFSXOE471XE	3500
	7.3		4.3	1.9	8500	4.5	EEFSXOE471E4	3500	
	4	82	7.3	4.3	1.9	6300	9	EEFSXOG820ER	3500
			7.3	4.3	1.9	6300	9	EEFSXOG101ER	3500
		150	7.3	4.3	1.9	6300	9	EEFSXOG151ER	3500
			7.3	4.3	1.9	7000	7	EEFSXOG151E7	3500
		180	7.3	4.3	1.9	6300	9	EEFSXOG181ER	3500
		220	7.3	4.3	1.9	6300	9	EEFSXOG221ER	3500
		270	7.3	4.3	1.9	6300	9	EEFSXOG271ER	3500
W ₃₃₀ W		7.3	4.3	1.9	6300	9	EEFSXOG331ER	3500	
	7.3	4.3	1.9	7500	6	EEFSXOG331XE	3500		
6.3	120	7.3	4.3	1.9	7000	7	EEFSXOJ121E7	3500	
	150	7.3	4.3	1.9	6300	9	EEFSXOJ151ER	3500	
	180	7.3	4.3	1.9	6300	9	EEFSXOJ181ER	3500	
	W 220	7.3	4.3	1.9	6300	9	EEFSXOJ221ER	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

Temp.	T $\leq 45^{\circ}C$	45 $^{\circ}C < T \leq 85^{\circ}C$	85 $^{\circ}C < T \leq 105^{\circ}C$
Coefficient	1.0	0.7	0.25

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