

SRE SERIES



■ Features

- High voltage
- Wider temperature range
- RoHS compliant
- Consumer electronic
- Pulse power
- Hold-up power



Items	Characteristics		
Rated Voltage	3 V		
Operating Temperature Range	-40 ~+65°C (-40 ~+85°C@2.5V)		
Surge Voltage	3.2V		
Capacitance Range	3~50 F		
Capacitance Tolerance (25°C)	-10~+30%		
Temperature Characteristics	The specifications shall be met at category temperature range from -40°C to 65°C	Capacitance range	Within 30% of the value at 25°C
		ESR	Less than 2 times of the initial specified value
High Temperature Loaded	The specifications shall be met after rated voltage applied at 65°C for 1000 hours	Capacitance range	Within 30% of the initial value
		ESR	Less than 2 times of the initial specified value
High Temperature Storage	The specifications shall be met after storage at 65 °C for 1000 hours	Capacitance range	Within 30% of the initial value
		ESR	Less than 2 times of the initial specified value
Cycle Life	The specifications shall be met after 500,000 cycles at 25 °C, cycle of charge/discharge from V_R to $1/2V_R$	Capacitance range	Within 30% of the initial value
		ESR	Less than 2 times of the initial specified value

Dimensions

mm

Side view diagram of a capacitor. Dimensions include: Vent, Sleeve, $\phi D \pm 0.05$, ϕD , $L \pm \alpha \text{ max.}$, 15 Min., and 4 Min.

Top view diagram of a capacitor. Dimension includes: $P \pm 0.5$.

ΦD	8	10	16	18
p	3.5	5.0	7.5	
Φd	0.6	0.6	0.8	
a	1.5	2.0		

Standard Ratings for SRE Series

U _R (Surge Voltage) Code	Rated Cap. 25°C, (F)	Impedance		Leakage Current (72hrs) (mA)	Size ΦD×L (mm)	Weight (g)	P/N
		ESR _{DC} (mΩ)	ESR _{AC} (1KHz) (mΩ)				
(v)	(F)	(mΩ)	(mΩ)	(mA)	(mm)	(g)	-
3 (3.2) 3R0	3	150	80	0.013	8 x 20	1.4	SCCDER3R0305QRH080020E
	5	130	70	0.018	10 x 20	2.1	SCCDER3R0505QRH100020E
	7	80	55	0.025	10 x 25	2.3	SCCDER3R0705QRH100025E
	10	60	40	0.040	10 x 30	3.2	SCCDER3R0106QRH100030E
	25	35	25	0.080	16 x 25	7	SCCDER3R0256QRH160025E
	50	22	15	0.150	18 x 40	12.8	SCCDER3R0506QRH180040E