

# CDPE

## PE Series Conductive polymer type Radial lead type



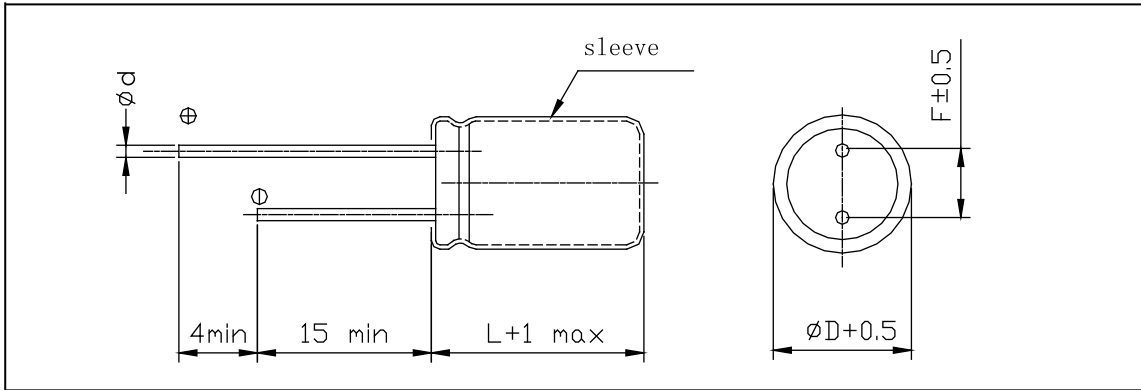
### ■ Features

- ◎ This is a lead type using conductive polymer based on PV.
- ◎ Lead free-flow is supported.
- ◎ Adapted to the ROHS directive (2002/95/EC) .

### ■ Specifications

Items	Characteristics		
Operating Temperature Range	-55°C~+105°C		
Rated Voltage Range	2.5V ~2 5V		
Nominal Capacitance Range	3.3 ~ 1500 μ F		
Nominal Capacitance Tolerance	±20% (20°C, 120Hz)		
Leakage Current	Less than or equal to the value of table1 at 20°C, after 2 minutes		
Dissipation Factor (Max) (tg δ)	Less than or equal to the value of table1 20°C, 120Hz		
ESR	Less than or equal to the value of table1		
Characteristics of impedance ratio at high temp. and low temp	100KHZ 20°C	-55°C	Z/Z20°C 0.75 to 1.25
	Based the value at 100KHZ. +20°C	+105°C	Z/Z20°C 0.75 to 1.25
Load Life	After 2000 hours application of rated voltage at 105°C, the capacitor shall meet the following requirement:		
	Capacitance Change	±20% Within ±20% of the initial value (16V: within ±25% of the initial value)	
	Dissipation Factor	≤ Not more than 150% of the initial specified value	
	ESR	≤ Not more than 150% of the initial specified value	
	Leakage Current	≤ Not more than the initial specified value	
Damp heat(Steady state)	60°C, 90~95% RH, 1000	60, 90~95% RH, 1000 hours, No-applied voltage.	
	Capacitance Change	±20% Within ±20% of the initial value (16V: within ±25% of the initial value)	
	Dissipation Factor	≤ Not more than 150% of the initial specified value	
	ESR	≤ Not more than 150% of the initial specified value	
	Leakage Current	≤ Not more than the initial specified value	
Resistance to Soldering Heat	(VPS) (230°C X 75s)		
	Capacitance Change	Within ±20% of the initial value (16V: within ±25% of the initial value)	
	Dissipation Factor	≤ Not more than 130% of the initial specified value	
	ESR	≤ Not more than 130% of the initial specified value	
	Leakage Current	≤ Not more than the initial specified value	

■ Dimensions



■ Size list

© Nominal capacitance, rated voltage, rated ripple current and case size table

Size Code	Part Number * 1	Rated voltage (V)	Rated capacitance ( $\mu\text{F}$ )	ESR 100KHZ to 300KHZ ( $\text{m}\Omega$ )(max.)	Allowable Ripple current 100KHZ(mArms)	Tangent of loss angle (max.)	Leakage current( $\mu\text{A}$ ) (max.)* 2
4×5.4	16SVP3R3M	16	3.3	260	660	0.07	26.4
	10SVP4R7M	10	4.7	240	670	0.08	23.5
	10SVP6R8M	10	6.8	240	670	0.09	34.0
	10SVP10M	10	10	220	700	0.10	50.0
	10SVP15M	10	15	200	740	0.10	75.0
	6SVP22M	6.3	22	200	740	0.12	69.3
	4SVP33M	4	33	200	740	0.15	66.0
5×5.4	20SVP10M	20	10	120	1020	0.10	100
	16SVP15M	16	15	120	1020	0.10	120
	16SVP22M	16	22	90	1060	0.10	176
	10SVP33M	10	33	70	1100	0.12	165
	6SVP47M	6.3	47	70	1100	0.12	148
	4SVP39M	4	39	70	1100	0.12	78
	4SVP68M	4	68	60	1400	0.12	136
6×5.4	25SVP6R8M	25	6.8	80	1200	0.10	85
	20SVP22M	20	22	60	1450	0.10	88
	20SVP27M	20	27	60	1450	0.10	108
	16SVP39M	16	39	50	1620	0.10	125
	10SVP47M	10	47	50	1620	0.12	94
	10SVP56M	10	56	45	1700	0.12	112
	6SVP82M	6.3	82	45	1700	0.12	103
	6SVP100M	6.3	100	40	1810	0.12	126

Size Code	Part Number *1	Rated voltage (V)	Rated capacitance (μF)	ESR 100KHZ to 300KHZ (mΩ)(max.)	Allowable Ripple current 100KHZ(mArms)	Tangent of loss angle (max.)	Leakage current(μA) (max.)*2
6×5.4	6SVP120MV	6.3	120	17	2780	0.12	151
	4SVP150MX	4	150	40	1810	0.12	120
	2R5SVP220M	2.5	220	23	2390	0.12	110
8×7	25SVP10M	25	10	60	1500	0.10	125
	20SVP33M	20	33	45	1890	0.12	132
	20SVP47M	20	47	45	1890	0.12	188
	16SVP56M	16	56	45	1890	0.12	179
	16SVP82M	16	82	40	2120	0.12	262
	10SVP120M	10	120	35	2560	0.12	240
	10SVP150MX	10	150	35	2560	0.12	300
	6SVP220MX	6.3	220	35	2560	0.12	277
	4SVP150M	4	150	35	2560	0.12	120
	4SVP330M	4	330	35	2560	0.12	264
8×10.5	25SVP33M	25	33	30	2980	0.12	413
	20SVP100M	20	100	24	3320	0.15	400
	16SVP180M	16	180	20	3640	0.15	576
	10SVP330M	10	330	17	3950	0.15	660
	6SVP470M	6.3	470	15	4210	0.15	592
	4SVP560M	4	560	13	4520	0.15	448
	2R5SVP680M	2.5	680	13	4520	0.15	340
10×10.5	25SVP56M	25	56	28	3800	0.12	700
	20SVP150M	20	150	20	4320	0.15	600
	16SVP330M	16	330	16	4720	0.15	792
	10SVP560M	10	560	13	5230	0.15	840
	6SVP820M	6.3	820	12	5440	0.15	775
	4SVP1200	4	1200	12	5440	0.18	960
	2R5SVP1500M	2.5	1500	12	5440	0.18	750

\* 1 M±20% Capacitance tolerance:M±20%)

\* 2 (After 2 minutes)