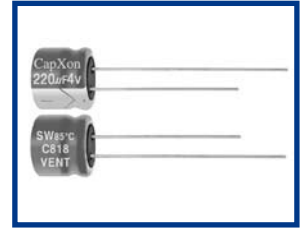


SW Series 5mm 85°C

Features

- ◆ Design for audio equipment.
- ◆ For detail specifications, please refer to Engineering Bulletin NO.E152
- ◆ RoHS Compliant



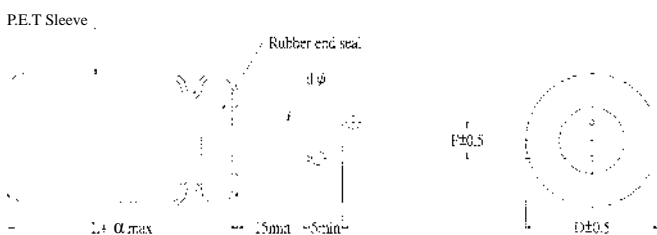
Specifications

Item	Performance Characteristics																								
Operating Temperature Range	-40~+85°C																								
Rated Voltage Range	4~50 VDC																								
Capacitance Range	0.1 to 470 µF																								
Capacitance Tolerance	±20%(120Hz,+20°C)																								
Leakage Current (+20°C,max.)	I=0.01 CV or 3 (µA) (After 2 minute with rated working voltage applied.)																								
Dissipation Factor (tan δ , at 20°C , 120Hz)	<table border="1"> <tr> <td>Working Voltage(VDC)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>D.F.(%)max.</td> <td>35</td> <td>24</td> <td>20</td> <td>16</td> <td>14</td> <td>12</td> <td>10</td> </tr> </table>	Working Voltage(VDC)	4	6.3	10	16	25	35	50	D.F.(%)max.	35	24	20	16	14	12	10								
	Working Voltage(VDC)	4	6.3	10	16	25	35	50																	
D.F.(%)max.	35	24	20	16	14	12	10																		
Low Temperature Characteristics (at 120Hz)	Impedance ratio max																								
	<table border="1"> <tr> <td>Working voltage(VDC)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>7</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>15</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	Working voltage(VDC)	4	6.3	10	16	25	35	50	Z-25°C / Z+20°C	7	4	3	2	2	2	2	Z-40°C / Z+20°C	15	8	6	4	4	3	3
	Working voltage(VDC)	4	6.3	10	16	25	35	50																	
Z-25°C / Z+20°C	7	4	3	2	2	2	2																		
Z-40°C / Z+20°C	15	8	6	4	4	3	3																		
Load Life	Test condition Duration time :1000 Hrs Ambient temperature :+85°C Applied voltage :Rated DC working voltage After test requirement at +20°C Capacitance change : ≤ ±20% of the initial measured value Dissipation factor : ≤ 200% of the initial specified value Leakage current : ≤ The initial specified value																								
Shelf Life	Test condition Duration time :1000 Hrs Ambient temperature :+85°C Applied voltage :None After test requirement at +20°C :Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.																								

Multiplier for Ripple Current vs. Frequency

CAP(µF)\Frequency(Hz)	50	120	300	1K	10K
Multiplier	0.70	1.00	1.17	1.36	1.50

Diagram of Dimension:(unit:mm)



D φ	4	5	6.3	8
F	1.5	2.0	2.5	3.5
d φ	0.45			0.50

Case Size

φ DxL(mm)

WV(SV) Cap(μF)	4 (5)		6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1													4×5	1.2
0.22													4×5	2.3
0.33													4×5	3.0
0.47													4×5	3.9
1													4×5	7.3
2.2													4×5	11
3.3											4×5	13	4×5	15
4.7									4×5	15	4×5	18	5×5	20
10							4×5	21	5×5	27	5×5	29	6.3×5	31
22			4×5	26	5×5	33	5×5	36	6.3×5	43	6.3×5	46	8×5	52
33	4×5	30	5×5	37	5×5	40	6.3×5	47	6.3×5	52	8×5	62	8×5	70
47	4×5	33	5×5	42	6.3×5	49	6.3×5	58	8×5	70	8×5	81		
100	5×5	54	6.3×5	67	8×5	80	8×5	92	8×5	109				
220	6.3×5	87	8×5	112	8×5	136								
330	8×5	143	8×5	170										
470	8×5	185												

Ripple Current (mA, rms) at 85°C 120Hz