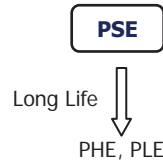


PSE series

- Standard
- Low Profile
- RoHS compliant

- 85°C 1,000Hrs assured.
- Non-solvent proof
- Height 5mm
- Halogen-free capacitors are also available
- For CAR-Audio, Tuner

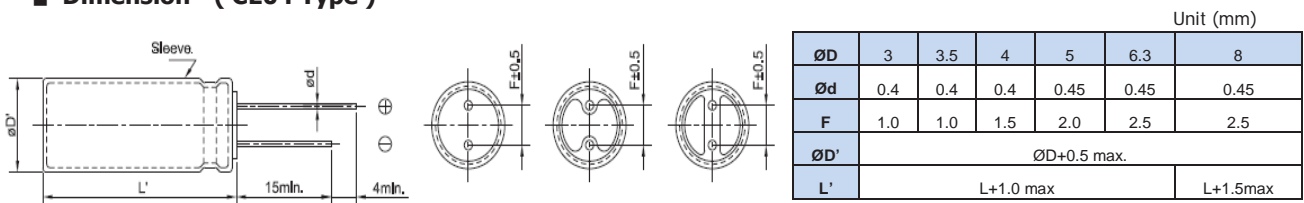


Radial type
Low Profile Type

Specifications

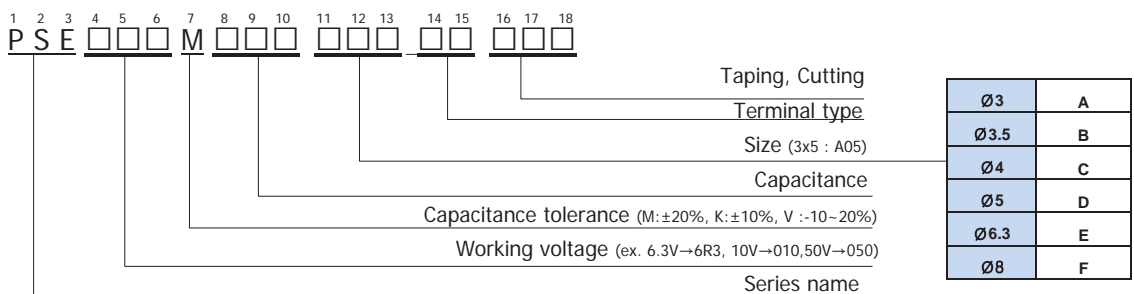
Item	Characteristics																					
Rated Voltage Range	4 ~ 50 VDC																					
Operating Temperature Range	- 40 ~ +85°C																					
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)																					
Leakage Current	I=0.01CV(µA) or 3µA, whichever is greater. Where, I:Max. Leakage current(µA), C:Nominal capacitance(µF), V:Rated voltage(VDC) (at 20°C, 2 minutes)																					
Dissipation Factor(Tanδ)	<table border="1"> <tr> <td>Rated 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>Tanδ(Max.)</td> <td>0.35</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.12</td> <td>0.10</td> </tr> </table> (at 20°C, 120Hz)	Rated Voltage(VDC)	4	6.3	10	16	25	35	50	Tanδ(Max.)	0.35	0.28	0.24	0.20	0.16	0.12	0.10					
Rated Voltage(VDC)	4	6.3	10	16	25	35	50															
Tanδ(Max.)	0.35	0.28	0.24	0.20	0.16	0.12	0.10															
Temperature characteristics (Max,impedance ratio)	<table border="1"> <tr> <td>Rated Voltage(VDC)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>Z(-25°C)/(20°C)</td> <td>7</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/(20°C)</td> <td>15</td> <td>10</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> </tr> </table> (at ,120Hz)	Rated Voltage(VDC)	4	6.3	10	16	25	35	Z(-25°C)/(20°C)	7	4	3	2	2	2	Z(-40°C)/(20°C)	15	10	8	5	4	3
Rated Voltage(VDC)	4	6.3	10	16	25	35																
Z(-25°C)/(20°C)	7	4	3	2	2	2																
Z(-40°C)/(20°C)	15	10	8	5	4	3																
Load life	The following specifications shall be satisfied when then the capacitors are restored to 20°C after the rated voltage is applied for 1,000 hours at 85°C. Capacitance change ≤ ±20% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ 200% of the initial specified value																					
Shelf life	The following specifications shall be satisfied when the capacitors are restored are restored to 20°C after exposing them for 1,000 hours at 85°C without voltage applied the rated voltage shall be applied to the capacitors for a minimum of 30 minutes at least 24 hours and not more than 48 hours before the measurements. Capacitance change ≤ ±20% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ 200% of the initial specified value																					

Dimension (CE04 Type)



- Printed white color letter on PET black sleeve

Code numbering system



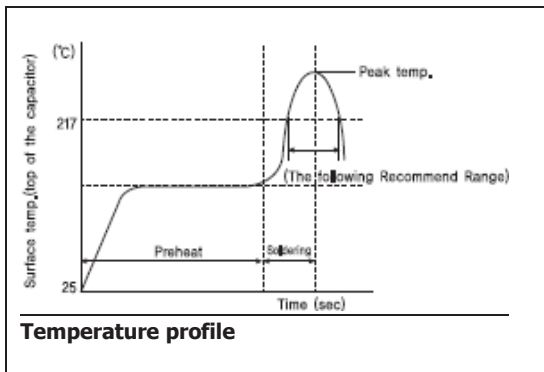
PSE series

Standard Rating

WV (Vdc)	Cap (uF)	Size ØxL (mm)	Tanδ	Ripple Current (mA _{RMS} /85°C,120Hz)	Code No
4	15	3 x 5	0.35	10	PSE004□150A05CS□□□
	22	3.5 x 5	0.35	15	PSE004□220B05CS□□□
	33	3.5 x 5	0.35	20	PSE004□330B05CS□□□
	47	4 x 5	0.35	28	PSE004□470C05CS□□□
	68	5 x 5	0.35	33	PSE004□680D05CS□□□
	100	5 x 5	0.35	48	PSE004□101D05CS□□□
	150	6.3 x 5	0.35	70	PSE004□151E05CS□□□
	220	6.3 x 5	0.35	79	PSE004□221E05CS□□□
330	8 x 5	0.35	95	PSE004□331F05CS□□□	
6.3	10	3 x 5	0.28	12	PSE6R3□100A05CS□□□
	15	3 x 5	0.28	15	PSE6R3□150A05CS□□□
	22	3.5 x 5	0.28	21	PSE6R3□220B05CS□□□
	33	4 x 5	0.28	30	PSE6R3□330C05CS□□□
	47	4 x 5	0.28	36	PSE6R3□470C05CS□□□
	68	5 x 5	0.28	48	PSE6R3□680D05CS□□□
	100	6.3 x 5	0.28	60	PSE6R3□101E05CS□□□
	150	6.3 x 5	0.28	72	PSE6R3□151E05CS□□□
220	8 x 5	0.28	93	PSE6R3□221F05CS□□□	
330	8 x 5	0.28	141	PSE6R3□331F05CS□□□	
10	6.8	3 x 5	0.24	11	PSE010□6R8A05CS□□□
	10	3 x 5	0.24	13	PSE010□100A05CS□□□
	15	3.5 x 5	0.24	18	PSE010□150B05CS□□□
	22	4 x 5	0.24	27	PSE010□220C05CS□□□
	33	5 x 5	0.24	35	PSE010□330D05CS□□□
	47	5 x 5	0.24	43	PSE010□470D05CS□□□
	68	6.3 x 5	0.24	54	PSE010□680E05CS□□□
	100	6.3 x 5	0.24	72	PSE010□101E05CS□□□
150	8 x 5	0.24	88	PSE010□151F05CS□□□	
220	8 x 5	0.24	98	PSE010□221F05CS□□□	
16	4.7	3 x 5	0.20	10	PSE016□4R7A05CS□□□
	6.8	3 x 5	0.20	12	PSE016□6R8A05CS□□□
	10	3 x 5	0.20	15	PSE016□100A05CS□□□
	15	4 x 5	0.20	24	PSE016□150C05CS□□□
	22	5 x 5	0.20	32	PSE016□220D05CS□□□
	33	5 x 5	0.20	40	PSE016□330D05CS□□□
	47	6.3 x 5	0.20	50	PSE016□470E05CS□□□
	68	6.3 x 5	0.20	60	PSE016□680E05CS□□□
100	6.3 x 5	0.20	77	PSE016□101E05CS□□□	

WV (Vdc)	Cap (uF)	Size ØxL (mm)	Tanδ	Ripple Current (mA _{RMS} /85°C,120Hz)	Code No
25	3.3	3 x 5	0.16	9.5	PSE025□3R3A05CS□□□
	4.7	3 x 5	0.16	11	PSE025□4R7A05CS□□□
	6.8	3.5 x 5	0.16	14	PSE025□6R8B05CS□□□
	10	4 x 5	0.16	21	PSE025□100B05CS□□□
	15	5 x 5	0.16	28	PSE025□150D05CS□□□
	22	5 x 5	0.16	35	PSE025□220D05CS□□□
	33	6.3 x 5	0.16	45	PSE025□330E05CS□□□
	47	6.3 x 5	0.16	59	PSE025□470E05CS□□□
	68	8 x 5	0.16	74	PSE025□680F05CS□□□
	100	8 x 5	0.16	90	PSE025□101F05CS□□□
35	2.2	3 x 5	0.12	8.3	PSE035□2R2A05CS□□□
	3.3	3 x 5	0.12	10	PSE035□3R3A05CS□□□
	4.7	3.5 x 5	0.12	13	PSE035□4R7B05CS□□□
	6.8	4 x 5	0.12	18	PSE035□6R8C05CS□□□
	10	5 x 5	0.12	25	PSE035□100D05CS□□□
	15	5 x 5	0.12	31	PSE035□150D05CS□□□
	22	6.3 x 5	0.12	40	PSE035□220E05CS□□□
	33	6.3 x 5	0.12	50	PSE035□330E05CS□□□
47	8 x 5	0.12	65	PSE035□470F05CS□□□	
50	0.1	3 x 5	0.10	1.3	PSE050□R10A05CS□□□
	0.15	3 x 5	0.10	2	PSE050□R15A05CS□□□
	0.22	3 x 5	0.10	2.9	PSE050□R22A05CS□□□
	0.33	3 x 5	0.10	3.5	PSE050□R33A05CS□□□
	0.47	3 x 5	0.10	4.2	PSE050□R47A05CS□□□
	0.68	3 x 5	0.10	5.1	PSE050□R68A05CS□□□
	1.0	3 x 5	0.10	6.2	PSE050□1R0A05CS□□□
	1.5	3 x 5	0.10	7.3	PSE050□1R5A05CS□□□
	2.2	3 x 5	0.10	9	PSE050□2R2A05CS□□□
	3.3	3.5 x 5	0.10	12	PSE050□3R3B05CS□□□
	4.7	4 x 5	0.10	17	PSE050□4R7C05CS□□□
	6.8	5 x 5	0.10	22	PSE050□6R8D05CS□□□
	10	5 x 5	0.10	27	PSE050□100D05CS□□□
15	6.3 x 5	0.10	36	PSE050□150E05CS□□□	
22	6.3 x 5	0.10	45	PSE050□220E05CS□□□	
33	8 x 5	0.10	61	PSE050□330F05CS□□□	

Recommended reflow soldering conditions (For PSE, PHE, PLE Series)



Time of preheat temp. (from 150 °C to 200 °C)	Time to be maintained above 217°C	Time to be maintained above 230°C	Peak temp.	Reflow cycle
60-100 Sec	60-70 sec	20-30 Sec	250 (10 Sec.)	1 TIME