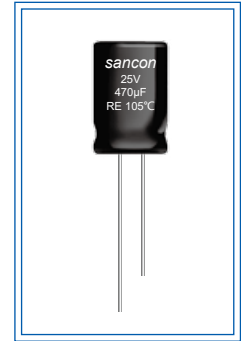


RE (CD287)

- Load life: +105°C 1000~5000 hours .
- High frequency, low impedance.
- RoHS Compliant.

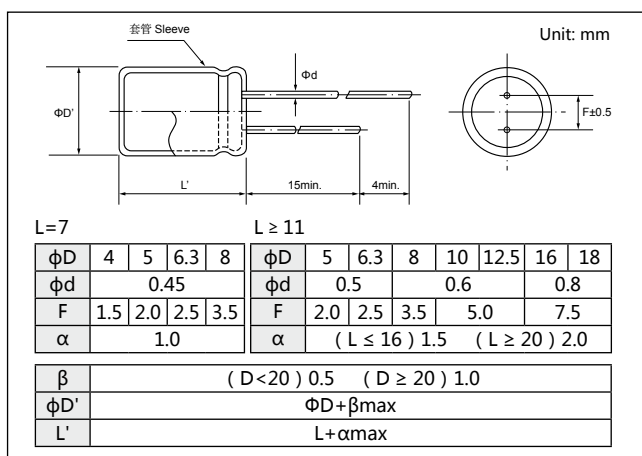


Specifications

Item	Performance Characteristics																											
Category Temperature Range	-40~+105°C																											
Rated Voltage Range	6.3~100V _{dc}																											
Capacitance Tolerance	±20% (+20°C, 120Hz)																											
Leakage Current	I ≤ 0.01CV or 3µA, Whichever is greater I: Leakage current (µA), C: Nominal capacitance (µF) V: Rated Voltage(V) (20°C, 2 minutes)																											
Dissipation Factor (tgδ) (+20°C ,120Hz)	<table border="1"> <tr> <th>Rated Voltage(V_{dc})</th> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <th>tgδ(Max.)</th> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> </tr> </table>	Rated Voltage(V _{dc})	6.3	10	16	25	35	50	63	100	tgδ(Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08									
	Rated Voltage(V _{dc})	6.3	10	16	25	35	50	63	100																			
tgδ(Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08																				
When nominal capacitance exceeds 1000µF, add 0.02 to the value above for each 1000µF increase.																												
Temperature characteristics (Max. Impedance ratio) (120Hz)	<table border="1"> <tr> <th>Rated Voltage(V_{dc})</th> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <th>Z(-25°C)/Z(+20°C)</th> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <th>Z(-40°C)/Z(+20°C)</th> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Rated Voltage(V _{dc})	6.3	10	16	25	35	50	63	100	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	2	2	Z(-40°C)/Z(+20°C)	8	6	4	3	3	3	3	3
	Rated Voltage(V _{dc})	6.3	10	16	25	35	50	63	100																			
	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	2	2																			
Z(-40°C)/Z(+20°C)	8	6	4	3	3	3	3	3																				
Endurance	<p>The specifications listed below shall be met when the capacitors are restored to 20°C after DC voltage plus rated ripple current is applied for a period of time at 105°C Capacitance change : ≤ ±25% of the initial value D.F. (tgδ) : ≤ 200% of the initial specified value Leakage current : ≤ The initial specified value</p> <table border="1"> <tr> <th>Case Size</th> <th>Load life (hours)</th> </tr> <tr> <td>L=7</td> <td>1000</td> </tr> <tr> <td rowspan="3">L ≥ 11</td> <td>ΦD ≤ 6.3</td> <td>2000</td> </tr> <tr> <td>ΦD = 8</td> <td>3000</td> </tr> <tr> <td>ΦD = 10</td> <td>4000</td> </tr> <tr> <td></td> <td>ΦD ≥ 12.5</td> <td>5000</td> </tr> </table>	Case Size	Load life (hours)	L=7	1000	L ≥ 11	ΦD ≤ 6.3	2000	ΦD = 8	3000	ΦD = 10	4000		ΦD ≥ 12.5	5000													
	Case Size	Load life (hours)																										
L=7	1000																											
L ≥ 11	ΦD ≤ 6.3	2000																										
	ΦD = 8	3000																										
	ΦD = 10	4000																										
	ΦD ≥ 12.5	5000																										
Shelf Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after leaving them under no load at 105°C for 1,000 hours. Capacitance change : ≤ ±25% of the initial value D.F. (tgδ) : ≤ 200% of the initial specified value Leakage current : ≤ 200% of the initial specified value</p>																											

Low Impedance

Diagram of Dimensions



Multiplier for Ripple Current

Frequency coefficient				
Frequency(Hz)	120	1K	10K	100K ≤
Cap.(µF)				
5.6~33µF	0.42	0.70	0.90	1.00
39~270µF	0.50	0.73	0.92	1.00
330~680µF	0.55	0.77	0.94	1.00
820~1800µF	0.60	0.80	0.96	1.00
2200~6800µF	0.70	0.85	0.98	1.00

Temperature coefficient			
Temperature (°C)	+70	+85	+105
Coefficient	1.96	1.68	1.0

Standard Ratings

Rated Voltage (V _{dc})	Cap (μF)	Size ΦD×L (mm)	Rated ripple current (mArms) 105°C / 100KHz	Impedance (Ω MAX)		Rated Voltage (V _{dc})	Cap (μF)	Size ΦD×L (mm)	Rated ripple current (mArms) 105°C / 100KHz	Impedance (Ω MAX)	
				20°C, 100KHz	-10°C, 100KHz					20°C, 100KHz	-10°C, 100KHz
6.3 (0J)	39	4×7	130	0.85	2.6	25 (1E)	15	4×7	130	0.94	2.9
	68	5×7	210	0.43	1.3		27	5×7	210	0.46	1.4
	150	6.3×7	300	0.23	0.69		47	5×11	250	0.30	1.0
	150	5×11	250	0.30	1.0		56	6.3×7	300	0.24	0.72
	220	8×7	380	0.15	0.45		100	8×7	380	0.15	0.45
	330	6.3×11	405	0.13	0.41		100	6.3×11	405	0.13	0.41
	560	8×11.5	760	0.072	0.22		220	8×11.5	760	0.072	0.22
	820	8×16	995	0.056	0.17		330	8×16	995	0.056	0.17
	1000	10×12.5	1030	0.053	0.16		330	10×12.5	1030	0.053	0.16
	1200	8×20	1250	0.041	0.13		470	8×20	1250	0.041	0.13
	1200	10×16	1430	0.038	0.12		470	10×16	1430	0.038	0.12
	1500	10×20	1820	0.023	0.069		680	10×20	1820	0.023	0.069
	2200	10×23	2150	0.022	0.066		820	10×23	2150	0.022	0.066
	3300	12.5×20	2360	0.021	0.053		1000	12.5×20	2360	0.021	0.053
	3900	12.5×25	2770	0.018	0.045		1500	12.5×25	2770	0.018	0.045
	4700	12.5×30	3290	0.016	0.041		1800	12.5×30	3290	0.016	0.041
	5600	12.5×35	3400	0.015	0.039		1800	16×20	3140	0.018	0.045
	5600	16×20	3140	0.018	0.045		2200	12.5×35	3400	0.015	0.039
6800	16×25	3460	0.016	0.043	2700	16×25	3460	0.016	0.043		
10 (1A)	27	4×7	130	0.89	2.7	35 (1V)	10	4×7	130	0.96	2.9
	56	5×7	210	0.44	1.4		18	5×7	210	0.47	1.5
	100	5×11	250	0.30	1.0		33	5×11	250	0.30	1.0
	120	6.3×7	300	0.23	0.69		39	6.3×7	300	0.25	0.75
	180	8×7	380	0.15	0.45		56	8×7	380	0.16	0.48
	220	6.3×11	405	0.13	0.41		56	6.3×11	405	0.13	0.41
	470	8×11.5	760	0.072	0.22		150	8×11.5	760	0.072	0.22
	680	8×16	995	0.056	0.17		220	8×16	995	0.056	0.17
	680	10×12.5	1030	0.053	0.16		220	10×12.5	1030	0.053	0.16
	1000	8×20	1250	0.041	0.13		270	8×20	1250	0.041	0.13
	1000	10×16	1430	0.038	0.12		330	10×16	1430	0.038	0.12
	1200	10×20	1820	0.023	0.069		470	10×20	1820	0.023	0.069
	1500	10×23	2150	0.022	0.066		560	10×23	2150	0.022	0.066
	2200	12.5×20	2360	0.021	0.053		680	12.5×20	2360	0.021	0.053
	3300	12.5×25	2770	0.018	0.045		1000	12.5×25	2770	0.018	0.045
	3900	12.5×30	3290	0.016	0.041		1200	12.5×30	3290	0.016	0.041
	3900	16×20	3140	0.018	0.045		1200	16×20	3140	0.018	0.045
	4700	12.5×35	3400	0.015	0.039		1500	12.5×35	3400	0.015	0.039
5600	16×25	3460	0.016	0.043	1800	16×25	3460	0.016	0.043		
16 (1C)	18	4×7	130	0.92	2.8	50 (1H)	5.6	4×7	130	1.0	3.0
	33	5×7	210	0.45	1.4		10	5×7	210	0.50	1.5
	56	5×11	250	0.30	1.0		22	6.3×7	300	0.26	0.78
	68	6.3×7	300	0.24	0.72		22	5×11	238	0.34	1.18
	120	8×7	380	0.15	0.45		33	8×7	380	0.17	0.51
	120	6.3×11	405	0.13	0.41		56	6.3×11	385	0.14	0.50
	330	8×11.5	760	0.072	0.22		100	8×11.5	724	0.074	0.22
	470	8×16	995	0.056	0.17		120	8×16	950	0.061	0.18
	470	10×12.5	1030	0.053	0.16		150	10×12.5	979	0.061	0.18
	680	8×20	1250	0.041	0.13		180	8×20	1190	0.046	0.14
	680	10×16	1430	0.038	0.12		220	10×16	1370	0.042	0.12
	1000	10×20	1820	0.023	0.069		270	10×20	1580	0.030	0.090
	1200	10×23	2150	0.022	0.066		330	10×23	1870	0.028	0.085
	1500	12.5×20	2360	0.021	0.053		470	12.5×20	2050	0.027	0.068
	2200	12.5×25	2770	0.018	0.045		560	12.5×25	2410	0.023	0.059
	2700	12.5×30	3290	0.016	0.041		680	12.5×30	2860	0.021	0.052
	2700	16×20	3140	0.018	0.045		820	12.5×35	2960	0.019	0.051
	3300	12.5×35	3400	0.015	0.039		820	16×20	2730	0.023	0.059
3900	16×25	3460	0.016	0.043	1000	16×25	3010	0.021	0.056		

Low Impedance

Standard Ratings

Rated Voltage (V _{dc})	Cap (µF)	Size ØD×L (mm)	Rated ripple current (mA _{rms}) 105°C / 100KHz	Impedance (Ω MAX)		Rated Voltage (V _{dc})	Cap (µF)	Size ØD×L (mm)	Rated ripple current (mA _{rms}) 105°C / 100KHz	Impedance (Ω MAX)	
				20°C, 100KHz	-10°C, 100KHz					20°C, 100KHz	-10°C, 100KHz
63 (1J)	15	5×11	165	0.88	3.5	100 (2A)	6.8	5×11	125	1.40	5.6
	33	6.3×11	265	0.35	1.4		15	6.3×11	205	0.57	2.3
	56	8×11.5	500	0.22	0.88		27	8×11.5	355	0.36	1.4
	82	8×16	665	0.16	0.64		39	8×16	450	0.25	1.0
	82	10×12.5	685	0.15	0.60		47	10×12.5	450	0.24	0.96
	120	8×20	820	0.12	0.48		56	8×20	565	0.19	0.76
	120	10×16	945	0.11	0.44		68	10×16	580	0.18	0.72
	180	10×20	1100	0.080	0.32		82	10×20	750	0.13	0.52
	180	12.5×16	1135	0.082	0.27		82	12.5×16	735	0.13	0.43
	220	10×23	1300	0.073	0.29		100	10×23	880	0.12	0.48
	270	12.5×20	1495	0.060	0.20		120	12.5×20	1045	0.094	0.31
	330	12.5×25	1850	0.043	0.14		180	12.5×25	1195	0.071	0.23
	470	12.5×30	2250	0.039	0.13		220	12.5×30	1410	0.063	0.21
	470	16×20	1990	0.045	0.14		220	16×20	1295	0.071	0.21
	560	12.5×35	2450	0.033	0.11		270	12.5×35	1560	0.052	0.17
	560	16×25	2550	0.032	0.096		270	16×25	1600	0.053	0.16
	680	12.5×40	2780	0.029	0.096		270	18×20	1470	0.069	0.19
	680	18×20	2450	0.038	0.10		330	12.5×40	1700	0.046	0.15
	820	16×31.5	2810	0.026	0.078		390	16×31.5	1750	0.041	0.12
	820	18×25	2780	0.031	0.084		390	18×25	1620	0.049	0.13
1000	16×35.5	2835	0.021	0.063	470	16×35.5	1890	0.033	0.10		
1000	18×31.5	3270	0.025	0.068	470	18×31.5	1775	0.039	0.11		
1200	16×40	3340	0.019	0.057	560	16×40	2080	0.030	0.090		
1200	18×35.5	3310	0.020	0.054	560	18×35.5	2060	0.031	0.084		
1500	18×40	3420	0.018	0.049	680	18×40	2570	0.028	0.076		

Customer products are available on request.