

RS (CD26S)

- ◎ Load life 105°C and low ESR.
- ◎ Excellent ripple current capability. Used in communication equipments, switching power supply, industrial measuring.
- ◎ Adapted to the ROHS directive (2002/95/EC).

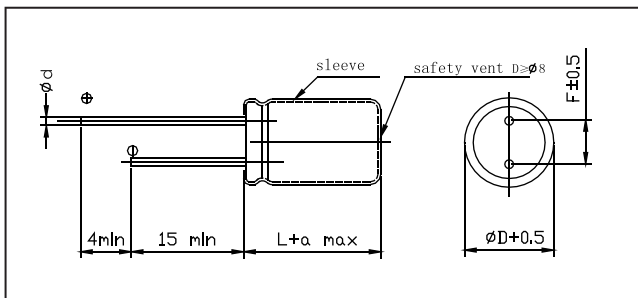


Specifications

Item	Performance Characteristics																																														
Operating temperature range	-40~ +105°C	-25~ +105°C																																													
Rated voltage range	6.3 ~ 100V	160 ~ 450V																																													
Nominal capacitance range	2.2~ 18000µF																																														
Capacitance tolerance	± 20% (120Hz, +20°C)																																														
Leakage current	$I \leq 0.01CV$ or $3(\mu A)$ (at 20°C, after 2 minutes) (Whichever is greater)	$CV \leq 1000: I = 0.1CV + 40(\mu A)$ max. $CV > 1000: I = 0.04CV + 100(\mu A)$ max after 1 minute																																													
(tg δ) Dissipation factor (+20, 120Hz)	<table border="1"> <thead> <tr> <th>U_R (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160~250</th> <th>400~450</th> </tr> </thead> <tbody> <tr> <td>tg δ</td> <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> <td>0.20</td> <td>0.24</td> </tr> </tbody> </table> <p>For capacitance value >1000µF, add 0.02per another 1000µF</p>											U_R (V)	6.3	10	16	25	35	50	63	100	160~250	400~450	tg δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.20	0.24														
U_R (V)	6.3	10	16	25	35	50	63	100	160~250	400~450																																					
tg δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.20	0.24																																					
Temperature Characteristics (Impedance ratio at 120Hz)	<table border="1"> <thead> <tr> <th>U_R (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160~250</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>Z-25°C/Z+20°C</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>3</td> <td>5</td> <td>6</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>											U_R (V)	6.3	10	16	25	35	50	63	100	160~250	400	450	Z-25°C/Z+20°C	4	3	3	3	3	3	2	2	3	5	6	Z-40°C/Z+20°C	8	6	4	4	3	3	3	3			
U_R (V)	6.3	10	16	25	35	50	63	100	160~250	400	450																																				
Z-25°C/Z+20°C	4	3	3	3	3	3	2	2	3	5	6																																				
Z-40°C/Z+20°C	8	6	4	4	3	3	3	3																																							
Load life	<p>Duration:</p> <table border="1"> <thead> <tr> <th>ϕD</th> <th>6.3</th> <th>8</th> <th>10</th> <th>12.5~</th> </tr> </thead> <tbody> <tr> <td>Load life</td> <td>3000h</td> <td>4000h</td> <td>5000h</td> <td>7000h</td> </tr> </tbody> </table> <p>After applying rated voltage at +105°C and then resumed 16 hours: Capacitance change : ±25% Initial measured value Leakage current : ≤ Initial specified value Dissipation factor : ≤ 2 times Initial specified value</p>											ϕD	6.3	8	10	12.5~	Load life	3000h	4000h	5000h	7000h																										
ϕD	6.3	8	10	12.5~																																											
Load life	3000h	4000h	5000h	7000h																																											
Shelf life	<p>After storage for 1000 hours at +105°C and then resumed 16 hours Capacitance change : ±25% Initial measured value Leakage current : ≤ 2 times Initial specified value Dissipation factor : ≤ 2 times Initial specified value</p>																																														

Case size table

Unit:mm



D	6.3	8	10	12.5	16	18
F	2.5	3.5	5.0		7.5	
d	0.5	0.5, 0.6	0.6		0.8	

αMAX	(L < 20) 1.5
	(L < 20) 2.0

■ RIPPLE CURRENT MULTIPLIER

Frequency coefficient

Cap.(μ F)	(Hz)	120	1K	10K	100K
~180		0.40	0.75	0.90	1.00
220~560		0.50	0.85	0.94	1.00
680~1800		0.60	0.87	0.95	1.00
2200~3900		0.75	0.90	0.95	1.00
4700~18000		0.85	0.95	0.98	1.00

Temperature coefficient

Temperature ($^{\circ}$ C)	~55	60	70	85	105
Factor	2.23	2.17	2.00	1.75	1.00

$\varnothing D \times L$ (mm)
 Impedance (20 $^{\circ}$ C/100KHz)
 Rated Ripple Current (+105 $^{\circ}$ C, 100KHZ)

■ DIMENSIONS

C_R (μ F)	Code	U_R Item	6.3V(0J)			10V(1A)			16V(1C)		
			case size $\varnothing D \times L$	Impedance (Ω max)	Ripple mArms	case size $\varnothing D \times L$	Impedance (Ω max)	Ripple mArms	case size $\varnothing D \times L$	Impedance (Ω max)	Ripple mArms
100	101							6.3x11	0.286	298	
120	121							6.3x11	0.286	298	
150	151							6.3x11	0.286	298	
180	181							6.3x11	0.286	298	
220	221		6.3x11	0.286	298			6.3x11	0.286	298	
270	271		6.3x11	0.286	298			8x12	0.169	561	
330	331		6.3x11	0.286	298			8x12	0.169	561	
390	391		8x12	0.169	561			8x12	0.169	561	
470	471		8x12	0.169	561			8x12	0.169	561	
560	561		8x12	0.169	561			8x12	0.169	561	
680	681							8x12	0.169	561	
820	821		8x12	0.169	561			8x12	0.169	561	
1000	102		8x12	0.169	561			8x12	0.169	561	
1200	122		8x12	0.169	561			8x12	0.169	561	
1500	152		8x12	0.169	561			8x12	0.169	561	
1800	182		8x12	0.169	561			8x12	0.169	561	
2200	222		8x12	0.169	561			8x12	0.169	561	
2700	272		8x12	0.169	561			8x12	0.169	561	
3300	332		8x12	0.169	561			8x12	0.169	561	
3900	392		8x12	0.169	561			8x12	0.169	561	
4700	472		8x12	0.169	561			8x12	0.169	561	
5600	562		8x12	0.169	561			8x12	0.169	561	
6800	682		8x12	0.169	561			8x12	0.169	561	

$\varnothing D \times L$ (mm)
 Impedance (20°C / 100KHz)
 Rated Ripple Current (+105°C, 100KHZ)

DIMENSIONS

$C_R(\mu F)$		U_R Item Code		6.3V(0J)			10V(1A)			16V(1C)		
				case size $\varnothing D \times L$	Impedance	Ripple	case size $\varnothing D \times L$	Impedance	Ripple	case size $\varnothing D \times L$	Impedance	Ripple
					(Ω max)	mArms		(Ω max)	mArms		(Ω max)	mArms
8200	822	16×35	0.026	2740	16×35	0.026	2740	18×35	0.025	3191		
					18×30	0.026	3157					
10000	103	16×35	0.026	2740	18×35	0.025	3191	18×40	0.020	3316		
		18×30	0.026	3157								
12000	123	16×40	0.022	3408	18×40	0.020	3316					
		18×35	0.025	3191								
15000	153	18×35	0.025	3191								
18000	183	18×40	0.020	3316								

$C_R(\mu F)$		U_R Item Code		25V(1E)			35V(1V)			50V(1H)		
				case size $\varnothing D \times L$	Impedance	Ripple	case size $\varnothing D \times L$	Impedance	Ripple	case size $\varnothing D \times L$	Impedance	Ripple
					(Ω max)	mArms		(Ω max)	mArms		(Ω max)	mArms
33	330							6.3×11	0.390	259		
39	390							6.3×11	0.390	259		
47	470				6.3×11	0.286	298	6.3×11	0.390	259		
56	560				6.3×11	0.286	298	8×12	0.221	487		
68	680				6.3×11	0.286	298	8×12	0.221	487		
82	820	6.3×11	0.286	298	8×12	0.169	561	8×12	0.221	487		
100	101	6.3×11	0.286	298	8×12	0.169	561	10×12.5	0.156	487		
120	121	8×12	0.169	561	8×12	0.169	561	8×16	0.156	667		
								10×12.5	0.156	640		
150	151				8×12	0.169	561	10×16	0.109	667		
180	181	8×12	0.169	561	10×12.5	0.104	759	8×16	0.118	921		
								10×16	0.109	798		
220	221	8×12	0.169	561	8×16	0.113	737	10×20	0.078	921		
					10×12.5	0.104	759	12.5×15	0.079	1070		
270	271	10×12.5	0.104	759	10×16	0.078	1061	10×25	0.072	1105		
330	331	8×16	0.113	737	8×20	0.090	921	10×30	0.056	1263		
		10×12.5	0.104	759	10×16	0.078	1061	12.5×20	0.059	1482		
390	391	10×16	0.078	1061	10×20	0.060	1228	12.5×20	0.059	1456		
					12.5×15	0.064	1272	16×15	0.072	1456		
470	471	8×20	0.090	921	10×20	0.060	1228	10×30	0.056	482		
		10×16	0.078	1061				12.5×25	0.044	1482		
560	561	10×20	0.060	1228	10×25	0.055	1447	12.5×25	0.044	1710		
		12.5×15	0.064	1272	12.5×20	0.046	1666	18×15	0.070	1710		
680	681	10×20	0.060	1228	10×30	0.056	1482	12.5×30	0.039	1693		
					12.5×25	0.039	1863	16×20	0.044	2026		
					16×15	0.072	1570					
820	821	10×25	0.055	1447	12.5×25	0.039	1863	12.5×35	0.033	2201		
		12.5×20	0.046	1666	18×15	0.073	1687	18×20	0.047	2184		
1000	102	10×30	0.040	1675	12.5×25	0.039	1863	12.5×35	0.027	2561		
		12.5×20	0.046	1666	16×20	0.046	1938	16×25	0.033	2241		
		16×15	0.072	1570								
1200	122	12.5×25	0.039	1863	12.5×30	0.034	2214	16×30	0.029	2640		
		18×15	0.073	1687	16×20	0.046	1938	18×25	0.034	2403		
1500	152	12.5×25	0.039	1863	12.5×35	0.029	2406	16×35	0.025	2763		
		16×20	0.046	1938	16×25	0.036	2238					
1800	182	12.5×30	0.034	2214	18×20	0.044	2188	16×40	0.021	3254		
		16×20	0.046	1938	12.5×40	0.025	2798	18×30	0.027	3188		
					16×25	0.036	2238					
2200	222	12.5×35	0.029	2406	16×30	0.029	2657	18×35	0.022	3228		
		18×20	0.044	2188	18×25	0.031	2430					
2700	272	16×25	0.036	2238	16×35	0.026	2740	18×40	0.018	3333		
					18×30	0.026	3157					
3300	332	16×30	0.029	2657	18×35	0.025	3191					
		18×25	0.031	2430								

LOW Z

∅D × L(mm)
Impedance (20°C / 100KHz)
Rated Ripple Current (+105°C, 100KHZ)

■ DIMENSIONS

C _R (μF)	Item Code	U _R	25V(1E)			35V(1V)			50V(1H)		
			case size ∅D×L	Impedance	Ripple	case size ∅D×L	Impedance	Ripple	case size ∅D×L	Impedance	Ripple
				(Ωmax)	mArms		(Ωmax)	mArms		(Ωmax)	mArms
3900	392		16×35	0.026	2740	18×40	0.020	3316			
			18×30	0.026	3157						
4700	472		18×35	0.025	3191						
5600	562		18×40	0.020	3316						

C _R (μF)	Item Code	U _R	63V(1J)			100V(2A)			160V(2C)		
			case size ∅D×L	Impedance	Ripple	case size ∅D×L	Impedance	Ripple	case size ∅D×L	Impedance	Ripple
				(Ωmax)	mArms		(Ωmax)	mArms		(Ωmax)	mArms
6.8	6R8										
10	100							10×16	2.925	219	
12	120										
15	150				6.3×11	1.560	101				
18	180										
22	220		6.3×11	1.560	101			10×20	1.950	307	
27	270				8×12	0.819	203				
33	330		6.3×11	1.560	101			12.5×20	1.391	366	
39	390		8×12	0.819	203	8×16	0.585	263			
47	470		8×12	0.819	203	10×12.5	0.559	253	12.5×25	0.897	526
56	560		8×12	0.819	203	8×20	0.429	317			
68	680		8×12	0.819	203	10×16	0.403	313			
82	820		10×12.5	0.559	253	10×20	0.273	409			
						12.5×15	0.299	409			
100	101		8×16	0.585	263	10×25	0.260	466	16×25	0.455	798
			10×12.5	0.559	253						
120	121		10×16	0.403	313	10×30	0.195	581			
						12.5×20	0.208	605			
150	151		8×20	0.429	317	16×15	0.182	697			
180	181		10×20	0.273	409	12.5×25	0.156	688			
			12.5×15	0.299	409	18×15	0.156	807			
220	221		10×20	0.273	409	12.5×30	0.130	794	18×35	0.273	1202
			10×25	0.260	466	16×20	0.118	912			
			12.5×20	0.208	605						
270	271		16×15	0.182	697	12.5×35	0.108	921			
						16×25	0.095	1096			
330	331		10×30	0.195	581	12.5×40	0.092	1035			
			12.5×20	0.208	605	18×20	0.104	1088			
390	391		12.5×25	0.156	688	16×30	0.070	1377			
			18×15	0.156	807	18×25	0.074	1307			
470	471		12.5×30	0.130	794	16×35	0.059	1570			
			16×20	0.118	912	18×30	0.061	1430			
560	561		16×25	0.095	1096	18×35	0.052	1570			
680	681		12.5×35	0.108	921	18×35	0.052	1570			
			16×25	0.095	1096						
			18×20	0.104	1088						
820	821		12.5×40	0.092	1035	18×40	0.047	2044			
			16×30	0.070	1377						
			18×25	0.074	1307						
1000	102		16×30	0.070	1377						
			16×35	0.059	1570						
1200	122		16×40	0.052	1772						
			18×30	0.061	1430						
1500	152		18×35	0.052	1570						
1800	182		18×40	0.047	2044						

LOW Z

$\varnothing D \times L(mm)$
 Impedance (20°C/100KHz)
 Rated Ripple Current (+105°C, 100KHZ)

DIMENSIONS

$C_R(\mu F)$ / U_R Item Code		200V(2D)			250V(2E)			400V(2G)		
		case size $\varnothing D \times L$	Impedance (Ω_{max})	Ripple mArms	case size $\varnothing D \times L$	Impedance (Ω_{max})	Ripple mArms	case size $\varnothing D \times L$	Impedance (Ω_{max})	Ripple mArms
2.2	2R2									
3.3	3R3							10x20	5.460	171
4.7	4R7				10x16	6.285	145	10x25	4.485	193
10	100	10x16	2.925	219	10x20	5.200	202	12.5x25	2.340	316
22	220	10x20	1.950	307	12.5x25	2.340	316	16x25	1.586	500
33	330	12.5x20	1.391	386	12.5x25	2.340	316	16x30	0.897	614
47	470	12.5x25	0.897	526	16x25	1.105	500	18x30	0.650	754
100	101	16x30	0.468	1017	18x35	0.585	820			
220	221	18x35	0.234	1202	18x40	0.520	877			

$C_R(\mu F)$ / U_R Item Code		450V(2W)								
		case size $\varnothing D \times L$	Impedance (Ω_{max})	Ripple mArms						
2.2	2R2	10x16	10.270	96						
3.3	3R3	10x20	8.060	118						
4.7	4R7	12.5x20	4.810	158						
10	100	12.5x25	3.380	228						
22	220	16x30	1.300	421						
33	330	18x35	0.806	579						

LOW Z