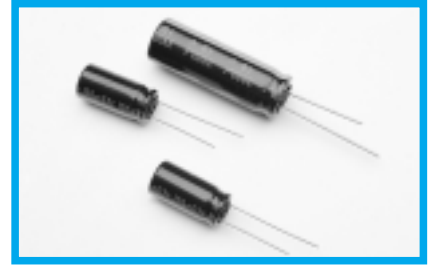
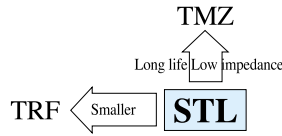


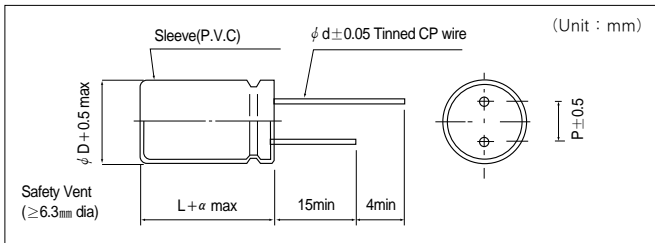
- High frequency low impedance
- Recommended applications
Switching power supply, industrial control



Specifications

Item	Performance Characteristics							
Operating Voltage	-55 ~ +105°C							
Capacitance Range	6.3 ~ 100V							
Capacitance Tolerance	5.6 ~ 12000 μ F							
Leakage Current	\pm 20% at 120Hz, 20°C							
tan δ	After 2minutes application of rated voltage, leakage current is not more than 0.01CV or 3.0(μ A), whichever is greater							
	(20°C, 120Hz)							
	Rated voltage(V)	6.3 10 16 25 35 50 63 100						
	tan δ (MAX.)	0.22 0.19 0.16 0.14 0.12 0.10 0.08 0.08						
	Add 0.02 per 1000 μ F for more than 1000 μ F items							
Stability at Low Temperature	(120Hz)							
	Rated voltage(V)	6.3~16 25~100						
	Z(-25°C)/Z(+20°C)	3 2						
	Z(-40°C)/Z(+20°C)	4 3						
	Z(-55°C)/Z(+20°C)	6 4						
Load Life	After an application of DC bias voltage plus the rated ac ripple current for 2000hours at 105°C (ϕ 5~ ϕ 8:1000hours), the peak voltage shall not exceed the rated DC voltage. The measurement shall meet following limits. Measurements shall be performed after 2hours exposure at room temperature.	<table border="1"> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> <tr> <td>Capacitance change</td> <td>Within \pm20% of the initial measured value</td> </tr> <tr> <td>tan δ</td> <td>Within 200% of the initial specified value</td> </tr> </table>	Leakage current	Initial specified value or less	Capacitance change	Within \pm 20% of the initial measured value	tan δ	Within 200% of the initial specified value
	Leakage current	Initial specified value or less						
Capacitance change	Within \pm 20% of the initial measured value							
tan δ	Within 200% of the initial specified value							
Shelf Life	After 1000hours at 105°C without voltage application measurements shall meet the following limits. Measurement shall be performed after exposure for 24hours at room temperature after application of DC rated voltage to the capacitors for 30minutes.	<table border="1"> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> <tr> <td>Capacitance change</td> <td>Within \pm20% of the initial measured value</td> </tr> <tr> <td>tan δ</td> <td>Within 200% of the initial specified value</td> </tr> </table>	Leakage current	Initial specified value or less	Capacitance change	Within \pm 20% of the initial measured value	tan δ	Within 200% of the initial specified value
	Leakage current	Initial specified value or less						
Capacitance change	Within \pm 20% of the initial measured value							
tan δ	Within 200% of the initial specified value							
Marking	Printed with white color letter on dark brown sleeve							
Applicable Standards	JIS C-5141, JIS C-5102							

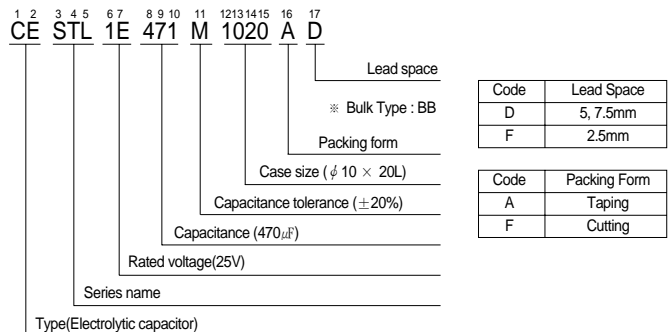
Dimensions



ϕ D	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ϕ d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
α	L \leq 16 : 1.5, L > 16 : 2.0						

In case size L > 25 for ϕ 13 case sizes, lead diameter ϕ d 0.8 will be applied.

Part number system



■ Case size table

(μF)

D×L	W.V.(Vdc)	6.3	10	16	25	35	50	36	100
	SV	8	13	20	32	44	63	79	125
5×11	120	82	56	39	27	18	12	5.6	
6.3×11	220	180	120	82	56	39	27	12	
8×11.5	390	330	220	150	100	68	47	22	
10×12.5	470	390	270	180	120	82	56	27	
10×16	680	560	390	270	180	100	68	33	
10×20	1200	820	680	470	330	180	120	56	
10×25	1500	1500	1000	680	470	330	150	68	
13×20	2200	1800	1200	820	560	330	220	100	
13×25	2700	2200	1500	1000	680	470	270	120	
13×35.5	4700	3300	2700	1800	1200	680	470	220	
13×40	5600	3900	3300	2200	1500	820	560	270	
16×25	5600	3900	2700	1800	1200	820	470	220	
16×31.5	6800	4700	3900	2700	1800	1000	680	330	
16×35.5	8200	6800	4700	3300	2200	1200	820	390	
18×35.5	12000	8200	6800	3900	2700	1800	1000	560	

■ Standard products table

W.V. (S.V.)	CAP. (μF)	PART NO.	MAX. Tan δ (120Hz/20℃)	MAX.Impedance(Ω)	Max.Ripple Current(mA), 105℃		Dim.(mm)	
				(20℃/100KHz)	(at 120KHz)	(at 100KHz)	ϕ D	L
6.3 (8)	120	STL0J121	0.22	1.30	123	185	5	11
	220	STL0J221	0.22	0.61	193	290	6.3	11
	390	STL0J391	0.22	0.34	320	480	8	11.5
	470	STL0J471	0.22	0.28	410	615	10	12.5
	680	STL0J681	0.22	0.22	510	765	10	16
	1200	STL0J122	0.22	0.14	775	930	10	20
	1500	STL0J152	0.22	0.11	847	1016	10	25
	2200	STL0J222	0.24	0.089	1010	1212	13	20
	2700	STL0J272	0.24	0.075	1190	1428	13	25
	4700	STL0J472	0.28	0.053	1595	1914	13	35.5
	5600	STL0J562	0.30	0.046	1785	2142	13	40
	5600	STL0J562	0.30	0.066	1415	1698	16	25
	6800	STL0J682	0.32	0.055	1630	1956	16	31.5
	8200	STL0J822	0.36	0.047	1830	2196	16	35.5
12000	STL0J123	0.44	0.042	2020	2424	18	35.5	
10 (13)	82	STL1A820	0.19	1.30	108	162	5	11
	180	STL1A181	0.19	0.59	205	308	6.3	11
	330	STL1A331	0.19	0.33	323	485	8	11.5
	390	STL1A391	0.19	0.27	410	615	10	12.5
	560	STL1A561	0.19	0.22	510	765	10	16
	820	STL1A821	0.19	0.14	690	1035	10	20
	1500	STL1A152	0.19	0.093	1001	1201	10	25
	1800	STL1A182	0.19	0.089	1100	1320	13	20
	2200	STL1A222	0.21	0.073	1220	1464	13	25
	3300	STL1A332	0.23	0.052	1595	1914	13	35.5
	3900	STL1A392	0.23	0.045	1785	2142	13	40
	3900	STL1A392	0.23	0.065	1415	1698	16	25
	4700	STL1A472	0.25	0.054	1630	1956	16	31.5
	6800	STL1A682	0.29	0.046	1830	2196	16	35.5
8200	STL1A822	0.33	0.041	2020	2424	18	35.5	
16 (20)	56	STL1C560	0.16	1.30	108	162	5	11
	120	STL1C121	0.16	0.58	182	273	6.3	11
	220	STL1C221	0.16	0.33	290	435	8	11.5
	270	STL1C271	0.16	0.27	387	581	10	12.5
	390	STL1C391	0.16	0.21	510	765	10	16
	680	STL1C681	0.16	0.14	690	1035	10	20

W.V. (S.V.)	CAP. (μ F)	PART NO.	MAX. Tan δ (120Hz/20 $^{\circ}$ C)	MAX.Impedance(Ω)	Max.Ripple Current(mA), 105 $^{\circ}$ C		Dim.(mm)	
				(20 $^{\circ}$ C/100KHz)	(at 120KHz)	(at 100KHz)	ϕ D	L
16 (20)	1000	STL1C102	0.16	0.091	935	1122	10	25
	1200	STL1C122	0.16	0.086	1010	1212	13	20
	1500	STL1C152	0.16	0.072	1190	1428	13	25
	2700	STL1C272	0.18	0.051	1595	1914	13	35.5
	3300	STL1C332	0.20	0.045	1785	2142	13	40
	2700	STL1C272	0.18	0.065	1415	1698	16	25
	3900	STL1C392	0.20	0.053	1630	1956	16	31.5
	4700	STL1C472	0.22	0.046	1830	2196	16	35.5
	6800	STL1C682	0.26	0.040	2020	2424	18	35.5
25 (32)	39	STL1E390	0.14	1.30	108	200	5	11
	82	STL1E820	0.14	0.58	182	273	6.3	11
	150	STL1E151	0.14	0.33	280	420	8	11.5
	180	STL1E181	0.14	0.26	360	540	10	12.5
	270	STL1E271	0.14	0.21	445	668	10	16
	470	STL1E471	0.14	0.14	690	1035	10	20
	680	STL1E681	0.14	0.09	792	1188	10	25
	820	STL1E821	0.14	0.085	900	1350	13	20
	1000	STL1E102	0.14	0.071	1060	1272	13	25
	1800	STL1E182	0.14	0.050	1595	1914	13	35.5
	2200	STL1E222	0.16	0.044	1785	2142	13	40
	2700	STL1E272	0.16	0.053	1630	1956	16	31.5
	3300	STL1E332	0.18	0.045	1830	2196	16	35.5
	3900	STL1E392	0.18	0.040	2020	2424	18	35.5
35 (44)	27	STL1V270	0.12	1.20	77	143	5	11
	56	STL1V560	0.12	0.57	182	273	6.3	11
	100	STL1V101	0.12	0.32	280	420	8	11.5
	120	STL1V121	0.12	0.26	360	540	10	12.5
	180	STL1V181	0.12	0.21	445	668	10	16
	330	STL1V331	0.12	0.13	605	908	10	20
	470	STL1V471	0.12	0.089	753	1130	10	25
	560	STL1V561	0.12	0.083	900	1350	13	20
	680	STL1V681	0.12	0.070	1060	1590	13	25
	1200	STL1V122	0.12	0.049	1595	1914	13	35.5
	1500	STL1V152	0.12	0.043	1785	2142	13	40
	1200	STL1V122	0.12	0.062	1415	1698	16	25
	1800	STL1V182	0.12	0.052	1630	1956	16	31.5
	2200	STL1V222	0.14	0.044	1830	2196	16	35.5
	2700	STL1V272	0.14	0.039	2020	2424	18	35.5
	50 (63)	18	STL1H180	0.10	1.20	77	142	5
39		STL1H390	0.10	0.55	182	337	6.3	11
68		STL1H680	0.10	0.31	280	420	8	11.5
82		STL1H820	0.10	0.25	360	540	10	12.5
100		STL1H101	0.10	0.20	445	668	10	16
180		STL1H181	0.10	0.13	605	908	10	20
330		STL1H331	0.10	0.081	845	1267	13	20
330		STL1H331	0.10	0.086	851	1276	10	25
470		STL1H471	0.10	0.068	1060	1590	13	25
680		STL1H681	0.10	0.048	1420	2130	13	35.5
820		STL1H821	0.10	0.042	1585	2378	13	40
820		STL1H821	0.10	0.060	1260	1890	16	25
1000		STL1H102	0.10	0.050	1450	1740	16	31.5
1200		STL1H122	0.10	0.043	1830	2196	16	35.5
1800		STL1H182	0.10	0.038	2020	2424	18	35.5
63 (79)	12	STL1J120	0.08	2.00	62	115	5	11
	27	STL1J270	0.08	1.20	90	167	6.3	11
	47	STL1J470	0.08	0.56	215	323	8	11.5

■ Standard products table

W.V. (S.V.)	CAP. (μ F)	PART NO.	MAX. Tan δ (120Hz/20 $^{\circ}$ C)	MAX.Impedance(Ω)	Max.Ripple Current(mA), 105 $^{\circ}$ C		Dim.(mm)	
				(20 $^{\circ}$ C/100KHz)	(at 120KHz)	(at 100KHz)	ϕ D	L
63 (79)	56	STL1J560	0.08	0.50	270	405	10	12.5
	68	STL1J680	0.08	0.35	350	525	10	16
	120	STL1J121	0.08	0.27	435	653	10	20
	150	STL1J151	0.08	0.20	536	804	10	25
	220	STL1J221	0.08	0.160	625	938	13	20
	270	STL1J271	0.08	0.140	730	1095	13	25
	470	STL1J471	0.08	0.091	1160	1740	13	35.5
	560	STL1J561	0.08	0.080	1290	1935	13	40
	470	STL1J471	0.08	0.091	1155	1733	16	25
	680	STL1J681	0.08	0.065	1435	2153	16	31.5
	820	STL1J821	0.08	0.056	1600	2400	16	35.5
	1000	STL1J102	0.08	0.061	2200	2640	18	35.5
100 (125)	5.6	STL2A5R6	0.08	1.90	61	113	5	11
	12	STL2A120	0.08	1.10	90	167	6.3	11
	22	STL2A220	0.08	0.53	155	287	8	11.5
	27	STL2A270	0.08	0.48	190	352	10	12.5
	33	STL2A330	0.08	0.33	250	463	10	16
	56	STL2A560	0.08	0.26	435	653	10	20
	68	STL2A680	0.08	0.190	560	840	10	25
	100	STL2A101	0.08	0.150	625	938	13	20
	120	STL2A121	0.08	0.130	730	1095	13	25
	220	STL2A221	0.08	0.087	1015	1523	13	35.5
	270	STL2A271	0.08	0.074	1130	1695	13	40
	330	STL2A331	0.08	0.062	1255	1883	16	31.5
	390	STL2A391	0.08	0.053	1454	2181	16	35.5
	560	STL2A561	0.08	0.059	1595	2393	18	35.5