

ST series



Features

- ★ 125℃ Guaranteed
- ★ Low ESR at high frequency range
- ★ Mainly used in automotive, LED drive power, communication power supply

主要用于汽车、LED驱动电源、通讯电源。

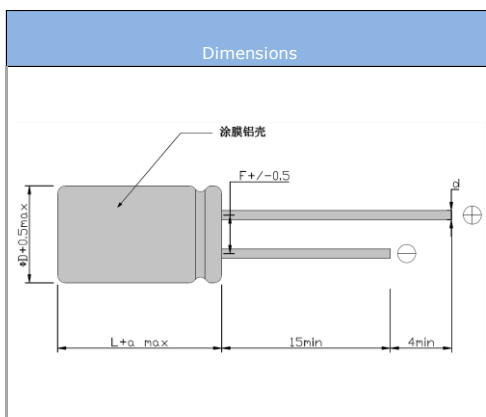


Specifications

item	Performance Characteristics	
Operating Temperature Range	-55~+125℃	
Rated Voltage Range	2.5~100vdc	
Capacitance Tolerance	±20%(120Hz, +20℃)	
Leakage Current(+20℃, max)	$\leq 0.2CV$ or 500uA whichever is greater (After rated voltage applied for 2 minutes)	
Dissipation Factor(tanδ, at 20℃, 120Hz)	Not exceed the value specified	
ESR(100KHz)	Not exceed the value specified	
Endurance 125℃, 2000h, at rated voltage	Capacitance Change	Within ±20% of the value before test
	Leakage Current	Not exceed the value specified
	ESR	Not exceed 150% of the value specified
	Dissipation Factor	Not exceed 150% of the value specified
Moisture Resistance Stored at 60℃, RH90~95%, 1000h	Capacitance Change	Within ±20% of the value before test
	Leakage Current	Not exceed the value specified
	ESR	Not exceed 150% of the value specified
	Dissipation Factor	Not exceed 150% of the value specified

Frequency Coefficient for Ripple Current

Frequency	120Hz≤freq. < 1KHz	1KHz≤freq. < 10KHz	10KHz≤freq. < 100KHz	100KHz≤freq. < 300KHz
Coefficient	0.05	0.3	0.7	1



Size

Unit: mm

ΦDXL	ΦD+0.5 max.	a	F±0.5	Φd±0.05	
5X7/8	5	1	2	0.45/0.5	
5X9/10/11	5	1	2	0.5	
5X7E/9E/10E/11E	5.5	1	2.5	0.5	
6.3X5/6/7/8/9	6.3	1	2.5	0.5/0.6	
6.3X11/12/14	6.3	1	2.5	0.6	
8X7/8	8	1	3.5	0.6	
8X8P/11P/12P	8	1.5	2.5	0.6	
8X11.5/12.5/15	8	1.5	3.5	0.6	
10X11.5/12.5/13.5/15	10	1.5	5	0.6	



Dimensions & Characteristics

Ripple Current(mA.rms) at 105℃,100KHz

W.V (V)	Capacitance (uF)	LC. (uA,2min)	tgδ (120Hz,20℃)	ESR (mΩ,100KHz)	Rated Ripple Current (mA,rms)	Size ΦDXL(mm)	Part Number
6.3	390	500	12	14	3500	5X9	ST397M6R3C0900
6.3	470	592.2	12	14	4100	6.3X8	ST477M6R3E0800
6.3	560	705.6	12	14	4100	6.3X8	ST567M6R3E0800
6.3	680	856.8	12	14	4100	6.3X9	ST687M6R3E0900
6.3	820	1033.2	12	12	4500	8X8	ST827M6R3F0800
6.3	820	1033.2	12	12	5700	8X11.5	ST827M6R3F1150
6.3	1200	1512	12	12	4500	6.3X12	ST128M6R3E12D0
6.3	1200	1512	12	12	4900	8X11.5	ST128M6R3F1150
6.3	1500	1890	12	12	4900	8X11.5	ST158M6R3F1150
6.8	680	924.8	12	14	4100	6.3X9	ST687M6R8E0900
7.5	500	750	12	14	4100	5.5X9	ST507M7R5C09E0
7.5	680	1020	12	14	4700	6.3X8	ST687M7R5E08D0
10	470	940	12	16	5000	6.3X12	ST477M010E1200
10	470	940	12	16	5000	8X11.5	ST477M010F1150
10	560	1120	12	16	5000	6.3X12	ST567M010E1200
10	560	1120	12	14	5000	8X8	ST567M010F0800
10	680	1360	12	14	5800	8X11.5	ST687M010F1150
10	1000	2000	12	14	5800	8X11.5	ST108M010F1150
12	680	1632	12	20	5600	8X8	ST687M012F0800
14	680	1904	12	22	4100	6.3X12	ST687M014E12D0
16	220	704	12	22	2690	6.3X11	ST227M016E1100
16	220	704	12	22	4100	8×8	ST227M016F0800
16	330	1056	12	22	4100	6.3X9	ST337M016E0900
16	390	1248	12	22	4100	6.3X11	ST397M016E1100
16	470	1600	12	22	4500	8X8	ST477M016F0800
16	560	1792	12	22	4100	6.3X12	ST567M016E12D0
16	680	2176	12	22	4500	8X11.5	ST687M016F1150
25	330	1000	12	35	4100	6.3X12	ST337M025E1200
25	470	1000	12	35	4500	8X11.5	ST477M025F1150
25	560	1000	12	35	4100	6.3X14	ST567M025E14D0
25	560	1000	12	35	4500	8X11.5	ST567M025F1150
25	680	1000	12	35	4500	8X15	ST687M025F1500
28	400	1000	12	28	2600	10X12.5	ST407M028G1250
30	470	1000	12	28	2600	8X15	ST477M030F1500
35	10	300	12	100	2000	5X7	ST106M035C07C0
35	22	300	12	60	2600	6.3X8	ST226M035E0800
35	33	300	12	60	2600	5X9	ST336M035C0900
35	47	329	12	40	2600	6.3X7	ST476M035E0700
35	47	329	12	40	2600	6.3X8	ST476M035E0800



Dimensions & Characteristics

Ripple Current(mA,rms) at 105℃,100KHz

W.V (V)	Capacitance (uF)	LC. (uA,2min)	tgδ (120Hz,20℃)	ESR (mΩ,100KHz)	Rated Ripple Current (mA,rms)	Size ΦDXL(mm)	Part Number
35	100	700	12	40	2600	5.5X9	ST107M035C09E0
35	100	700	12	35	2600	6.3X7	ST107M035E07D0
35	100	700	12	35	2600	6.3X8	ST107M035E0800
35	100	700	12	35	2600	6.3X9	ST107M035E0900
35	100	700	12	35	2980	8X8	ST107M035F0800
35	220	1000	12	28	2980	6.3X12	ST227M035E12D0
35	220	1000	12	28	3800	8X11.5	ST227M035F1150
35	330	1000	12	28	3800	8X12.5	ST337M035F1250
35	330	1000	12	28	3800	10X12.5	ST337M035G1250
35	470	1000	12	28	3800	8X15	ST477M035F1500
35	470	1000	12	28	3800	10X12.5	ST477M035G1250
35	470	1000	12	35	3800	10X12.5	ST477M035G1250
35	680	1000	12	28	3800	10X15	ST687M035G1500
35	820	1000	12	28	3800	10X15	ST827M035G1500
35	1000	1000	12	28	3800	10X20	ST108M035G2000
50	4.7	300	12	60	2600	5X7	ST475M050C07C0
50	10	300	12	60	2600	5X8	ST106M050C0800
50	22	300	12	45	2600	6.3X8	ST226M050E0800
50	39	390	12	45	2600	6.3X8	ST396M050E0800
50	47	470	12	45	2600	6.3X8	ST476M050E08D0
50	68	680	12	45	2600	6.3X9	ST686M050E0900
50	100	1000	12	45	2900	8X11.5	ST107M050F1150
50	220	1000	12	45	2900	8X15	ST227M050F1500
50	220	1000	12	45	2900	10X12.5	ST227M050G1250
50	470	1000	12	45	2900	10X20	ST477M050G2000
63	22	300	12	60	2600	6.3X8	ST226M063E0800
63	33	416	12	60	2600	6.3X9	ST336M063E0900
63	47	592	12	60	2600	6.3X11	ST476M063E1100
63	82	1000	12	45	2900	8X11.5	ST826M063F1150
63	100	1000	12	45	2900	10X12.5	ST107M063G1250
80	22	352	12	60	2600	8X8	ST226M080F0800
100	4.7	300	12	100	2600	5X8	ST475M100C0800
100	22	440	12	60	2600	6.3X9	ST226M100E0900
100	47	940	12	60	2900	8X11.5	ST476M100F1150