

## ST series 125°C Guaranteed

### Features

- ★ 125°C 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。

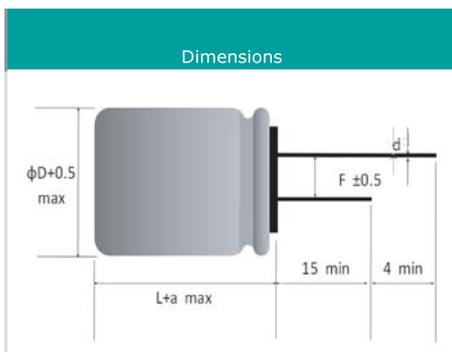


### Specifications

item	Performance Characteristics	
Operating Temperature Range	-55~+125°C	
Rated Voltage Range	2.5~35vdc	
Capacitance Tolerance	±20%(120Hz,+20°C)	
Leakage Current(+20°C,max)	≤0.2CV(μA,after 2 minutes)	
Dissipation Factor(tanδ,at 20°C,120Hz)	Not exceed the value specified	
ESR(100KHz)	Not exceed the value specified	
Endurance 125°C,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°C,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
5X9	5	1	2	0.45
6.3X7	6.3	1	2.5	0.5/0.6
6.3X8	6.3	1	2.5	0.5/0.6
6.3X9	6.3	1	2.5	0.5/0.6
6.3X11	6.3	1	2.5	0.6
8X8	8	1	3.5	0.6
8X11.5	8	1.5	3.5	0.6
10X12.5	10	1.5	5	0.6

**Size List**

WV(SV) Cap(uF)	2.5 (2.8)	4 (4.6)	6.3 (7.2)	16 (18.4)	25 (27.5)	35 (41)	
47						8X8	
100				6.3X11			
180					8X11.5		
220				8X8	8X11.5	10X12.5	
270					8X11.5		
560			8X8				
820	6.3X8						
1200	8X11.5	10X12.5					

W.V (V)	Capacitance (uF)	LC. (uA,2min)	tgδ (120Hz,20 °C)	ESR (mΩ,100KHz)	Rated Ripple Current (mA,rms)	Size ΦDXL(mm)	Part Number
2.5	820	410	12	12	5600	6.3X8	ST827M2R5E0800
2.5	1200	600	12	10	6100	8X11.5	ST128M2R5F1150
4	1200	960	12	10	6100	10X12.5	ST128M004G1250
6.3	560	706	12	12	5700	8X8	ST567M6R3F0800
16	100	320	12	24	2820	6.3X11	ST107M016E1100
16	220	704	12	13	4300	8X8	ST227M016F0800
25	180	900	12	35	2750	8X11.5	ST187M025F1150
25	220	1100	12	40	2000	8X11.5	ST227M025F1150
25	270	1350	12	40	2000	8X11.5	ST277M025F1150
35	47	329	12	90	1200	8X8	ST476M035F0800
35	220	1540	12	55	2450	10X12.5	ST227M035G1250