

ST series

高温品

HUAHUI

Features

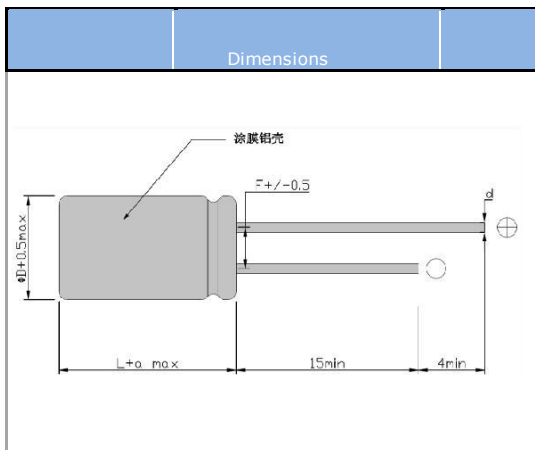
- ★ 125°C Guaranteed
- ★ Low ESR at high frequency range
- ★ Mainly used in automotive, LED drive power, communication power supply
主要用于汽车、LED 驱动电源、通讯电源。

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	0.45/0.5	
5X9/10	5	1	2	0.5	
5X9E/10E /11E	5.5	1	2.5	0.5	
6.3X7/8/9	6.3	1	2.5	0.5/0.6	
6.3X11/12	6.3	1	2.5	0.5/0.6	
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	
10X12.5/13. 5/15	10	1.5	5	0.6	

Dimensions & Characteristics

Ripple Current(mA.rms) at 105°C,100kHz

W.V (V)	Capacitance (uF)	I.C. (uA,2min)	gδ (120Hz,20°C)	ESR (mΩ,100kHz)	Rated Ripple Current (mA,rms)	Size φDXL(mm)	Part Number
6.3	390	491	12	14	2690	5X9	ST397M6R3C0900
6.3	470	592	12	14	4100	6.3X8	ST457M6R3E0800
6.3	500	630	12	14	4100	5.5X9	ST507M6R3C09E0
6.3	560	706	12	14	4700	6.3X9	ST567M6R3E0900
6.3	680	857	12	14	4500	5.5X11	ST687M6R3C11E0
6.3	680	857	12	14	4700	6.3X9	ST687M6R3E0900
6.3	820	1033	12	12	5700	8X11.5	ST827M6R3F1150
6.3	820	1033	12	12	4500	8X8	ST827M6R3F0800
6.3	1500	1890	12	12	4900	8X11.5	ST158M6R3F1150
6.8	680	925	12	14	4100	6.3X9	ST687M6R8E0900
7.5	450	675	12	14	4100	5.5X9	ST397M7R5C09E0
7.5	500	750	12	14	4100	5.5X9	ST507M7R5C09E0
7.5	680	1020	12	14	4700	6.3X8	ST687M7R5E08D0
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	4300	8× 8	ST227M016F0800
16	330	1056	12	22	4100	6.3X9	ST277M016E0900
16	390	1248	12	22	4100	6.3X11	ST337M016E1100
16	500	1600	12	22	4500	8X8	ST477M016F0800
16	560	1792	12	22	4100	6.3X12	ST567M016E12D0
16	680	2176	12	22	4500	8X11.5	ST687M016F1150