

SH series



Features

- ★ High voltage and high reliability, Large permissible ripple current
- ★ Low ESR at high frequency range
- ★ Applicable to the power circuit and industrial electronic equipment (such as: military products, high-end industrial power, LED lighting drive power supply), can satisfy lead-free soldering conditions.

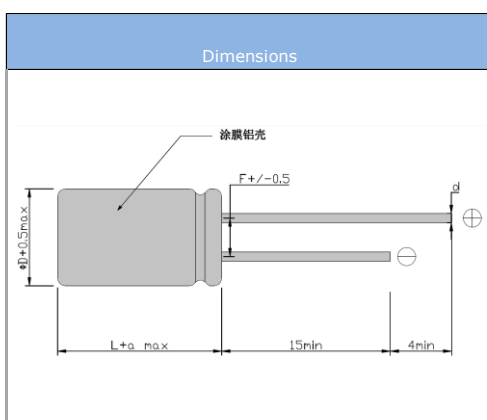
适用于电源电路及工业电子设备（如：军工产品、高端工业电源、LED照明驱动电源等），可满足无铅焊锡条件。

Specifications

item	Performance Characteristics	
Operating Temperature Range	-55~+105℃	
Rated Voltage Range	28~100vdc	
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 105℃,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
28	400	1000	10	28	2600	10X12.5	SH407M028G1250
30	470	1000	10	28	2600	8X15	SH477M030F1500
35	10	300	10	100	2000	5X7	SH106M035C07C0
35	22	300	10	60	2600	6.3X8	SH226M035E0800
35	33	300	10	60	2600	5X9	SH336M035C0900
35	47	329	10	60	2600	5X7	SH476M035C07C0
35	47	329	10	60	2600	6.3X7	SH476M035E0700
35	47	329	10	60	2600	6.3X8	SH476M035E0800
35	56	392	10	60	2600	5X8	SH566M035C0800
35	100	700	10	40	2600	5.5X9	SH107M035C09E0
35	100	700	10	40	2600	6.3X7	SH107M035E07D0
35	100	700	10	40	2600	6.3X8	SH107M035E0800
35	100	700	10	40	2600	6.3X9	SH107M035E0900
35	100	700	10	40	2980	8X8	SH107M035F0800
35	220	1000	10	28	2980	6.3X9	SH227M035E09D0
35	220	1000	10	28	2980	6.3X12	SH227M035E12D0
35	220	1000	10	28	3800	8X8	SH227M035F0800
35	220	1000	10	28	3800	8X11.5	SH227M035F1150
35	330	1000	10	28	3800	6.3X14	SH337M035E1400
35	330	1000	10	28	3800	8X12.5	SH337M035F1250
35	330	1000	10	28	3800	10X12.5	SH337M035G1250
35	470	1000	10	28	3800	8X15	SH477M035F1500
35	470	1000	10	28	3800	10X12.5	SH477M035G1250
35	680	1000	10	28	3800	10X15	SH687M035G1500
35	820	1000	10	28	3800	10X15	SH827M035G1500
35	1000	1000	10	28	3800	10X20	SH108M035G2000
50	4.7	300	10	60	2600	5X7	SH475M050C07C0
50	10	300	10	60	2600	5X8	SH106M050C0800
50	22	300	10	60	2600	6.3X8	SH226M050E0800
50	39	390	10	60	2600	6.3X8	SH396M050E0800
50	47	470	10	60	2600	6.3X8	SH476M050E08D0
50	68	680	10	60	2600	6.3X9	SH686M050E0900
50	100	1000	10	45	2900	8X11.5	SH107M050F1150
50	220	1000	10	45	2900	8X15	SH227M050F1500
50	220	1000	10	45	2900	10X12.5	SH227M050G1250
50	330	1000	10	45	2900	10X15	SH337M050G1500
50	470	1000	10	45	2900	10X20	SH477M050G2000
63	22	300	12	60	2600	6.3X8	SH226M063E0800
63	33	416	12	60	2600	6.3X9	SH336M063E0900
63	47	592	12	60	2600	6.3X11	SH476M063E1100

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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
63	82	1000	12	45	2900	8X11.5	SH826M063F1150
63	100	1000	12	45	2900	10X12.5	SH107M063G1250
80	22	352	12	60	2900	8X8	SH226M080F0800
100	4.7	300	12	100	2600	5X8	SH475M100C0800
100	22	440	12	60	2600	6.3X9	SH226M100E0900
100	47	940	12	60	2900	8X11.5	SH476M100F1150