

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

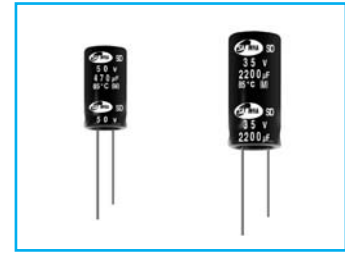
UPGRADE

SD Standard, For General Purposes Series

- Standard series for general purposes
- High CV value
- Ideal for slim type audio equipment
- Voltage range of 6.3~500V
- Load life of 2000 hours at 85°C

M Miniaturized
S Solvent Proof WV ≤ 200V

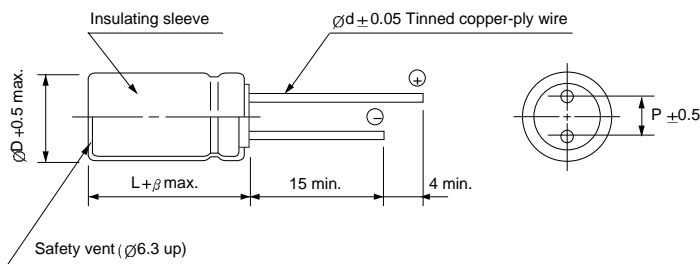
SD → **RD**
Wide temp.



Item	Characteristics										
Operating temperature range	WV	6.3~350									
	Temperature range	400 ~ 500 -40 ~ +85°C									
Leakage current max.	WV ≤ 100	WV > 100									
	I = 0.01CV or 3µA whichever is greater (after 2 min) I = 0.03CV or 4µA whichever is greater (after 1 min)										
Capacitance tolerance	±20% at 120Hz, 20°C										
Dissipation factor max. (at 120Hz, 20°C)	Capacitance > 1000µF : tan δ increases by 0.02 for each 1000µF from below value.										
	WV	6.3	10	16	25	35	50	63	100	160~250	350~500
tan δ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.15	0.20	
Low temperature characteristics (Impedance ratio at 120Hz)	WV	6.3	10	16	25	35	50~100	160	200~350	400~500	
	Z-25°C/Z+20°C	5	4	3	2	2	2	4	6	12	
	Z-40°C/Z+20°C	12	10	8	5	4	3	6	8	—	
Load life (after application of the rated voltage for 2000 hours at 85°C)	Leakage current	Less than specified value									
	Capacitance change	Within ±20% of initial value									
	tan δ	Less than 200% of specified value									
Shelf life (at 85°C)	After 1000 hours no load test, leakage current, capacitance and tan δ are same as load life value.										

● DRAWING

Unit : mm



ØD	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Ød	0.5	0.5	0.6	0.6	0.6	0.8	0.8
β	1.0			2.0			

● PERMISSIBLE RIPPLE CURRENT MULTIPLIERS

µF \ Frequency	50Hz	120Hz	300Hz	1kHz	10kHz~
~ 47	0.75	1	1.35	1.55	2.0
68 ~ 680	0.80	1	1.25	1.34	1.5
1000 ~	0.85	1	1.10	1.13	1.15

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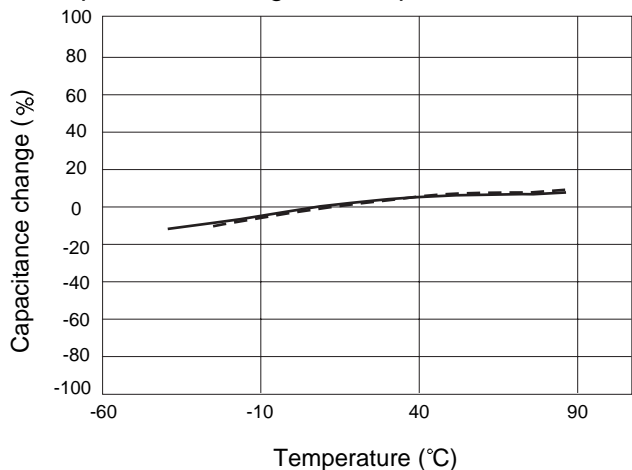
SD series

TYPICAL PERFORMANCE

— 16V 1000 μ F
 400V 10 μ F

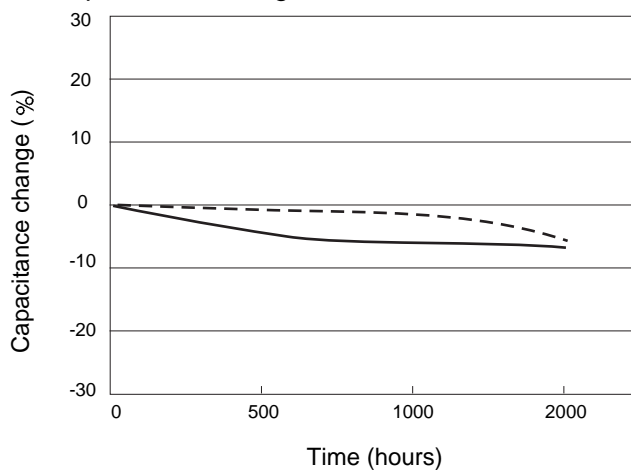
● TEMPERATURE CHARACTERISTICS

Capacitance change vs. temperature

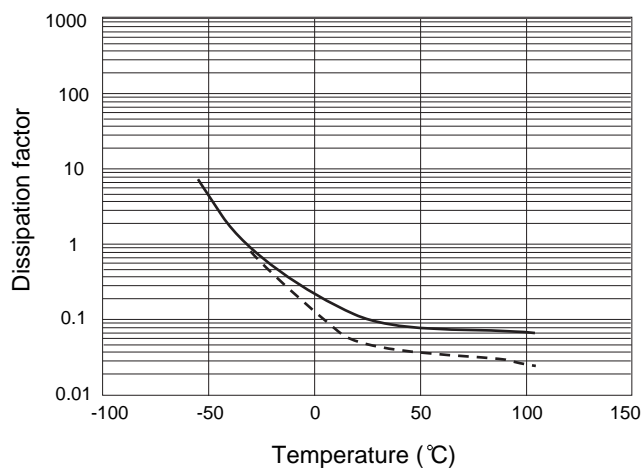


● LOAD LIFE (at +85°C)

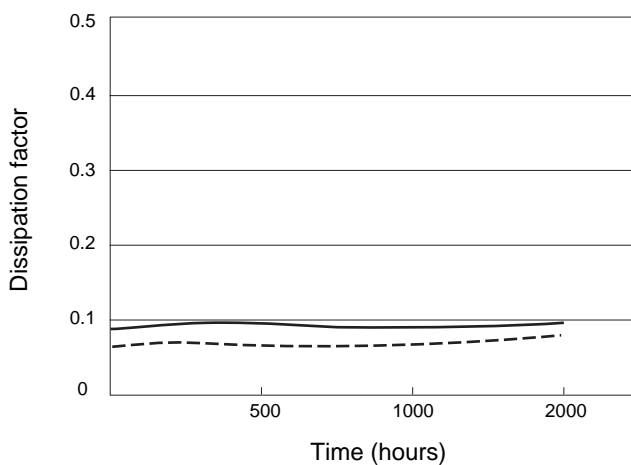
Capacitance change vs. time



Dissipation factor vs. temperature

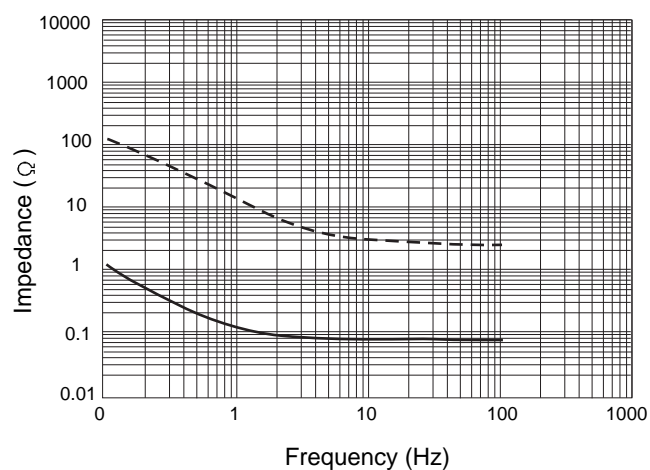


Dissipation factor vs. time



● FREQUENCY CHARACTERISTICS

Impedance vs. frequency



Leakage current vs. time

