SM series 105℃ 7mmL

- Designed for application of circuits at high operating temperature
- Solvent proof

■SPECIFICATIONS

Item	Performance Characteristics
Operating Temperature Range	-40℃~105℃
Rated Voltage Range	6.3~63V
Capacitance Range	0. 1~470uF
Capacitance Tolerance	±20% at 120Hz,20℃
Leakage Current (MAX)	After 2 minutes application of rated voltage.leakage current is not more than 0.01CV or 3(uA),whichever is greater
Dissipation Factor (tan δ)	For capacitance of more than 1000uF, added 0.02 for every increase of 1000 uF,Measurement frequence:120Hz, Temperature:20℃

Rated voltage(V)	6.3	10	16	25	35	50	63
Tan δ	0.26	0.22	0.18	0.16	0.14	0.12	0.10

Low Temperature Stability Impedance Ratio

Measurement frequency:120Hz

Rated voltage(V)		6.3	10	16	25	35	50	63
Impedance ratio	Z(-25℃) /Z(+20℃)	3	2	2	2	2	2	2
ZT/Z20 (MAX)	Z(-40℃) /Z(+20℃)	6	5	4	3	3	3	3

Load Life: After 1000 hours application of rated voltage at 105℃ capacitors meet the characteristics requirements listed at right.

Leakage Current	Specified value or less
Capacitance Change	Within ±20% of initial value
Dissipation Factor	200% or less of specified value

Shelf Life: After leaving capacitors under no load at 105℃ for 1000hours and applying voltage according to JIS C-5102 4-3,they meet the specified value for load life characteristics listed above.

Standard: According to JIS C-5141

■MULTIPLIER FOR RIPPLE CURRENT

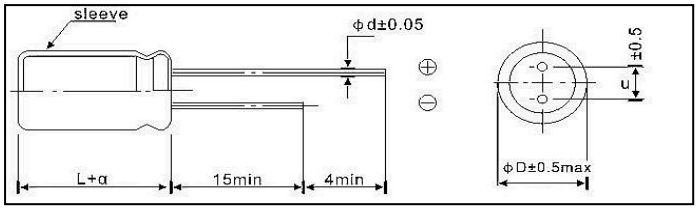
Frequency coefficient

W.V	Frequency(Hz) / Cap(uF)	60(50)	120	300	1k	10k~
6.3~63	0.1~82	0.80	1.00	1.20	1.30	1.50
	100~470	0.80	1.00	1.10	1.15	1.20

Temperature	65℃	75℃	85℃	105℃
Coefficient	1.78	1.70	1.40	1.00

SM series 105℃ 7mmL

■DIMENSIONS(mm)



ΦD	4	5	6.3	8
Φd	0.45	0.5		
F	1.5	2.0	2.5	3.5
α	1.0			

■STANDARD SIZE PERMISSIBLE RIPPLE CURRENT

Size ΦD×L(mm)Ripple Current(mA 105℃,120Hz)r.m.s

W.V / Cap(uF)	6.3		10		16		25		35		50		63	
	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple	SIZE	Ripple
0.1											4×7	1	4×7	1.3
0.22											4×7	2.3	4×7	2.9
0.33											4×7	3.5	4×7	4.4
0.47											4×7	5	4×7	7.9
0.68											4×7	7		
1									4×7	9	4×7	10	4×7	11
2.2					4×7	12					4×7 5×7	19 22	4×7	17
3.3					4×7	15	4×7	17			4×7	24	4×7	25
4.7	4×7	10			4×7	17	4×7	19	4×7	24	4×7 5×7	26 29	5×7	30
6.8									4×7	29	4×7 5×7	29 32		
10	4×7	20	4×7	25	4×7	29	4×7 5×7	31 33	4×7 5×7	34 36	4×7 5×7 6.3×7	31 36 44	6.3×7	46
22	4×7	34	4×7 5×7	35 38	4×7 5×7	41 44	4×7 5×7 6.3×7	35 46 51	5×7 6.3×7	46 57	6.3×7 8×7	61 65		
33	4×7 5×7	38 42	4×7 5×7	42 47	4×7 5×7 6.3×7	30 50 57	5×7 6.3×7	57 63	6.3×7 8×7	64 72	6.3×7			
47	4×7 5×7	46 50	4×7 6.3×7	53 59	4×7 5×7 6.3×7	48 56 68	5×7 6.3×7 8×7	60 70 78	6.3×7	75				
56							6.3×7	80						
82							8×7	90						
100	5×7 6.3×7	63 77	5×7 6.3×7 8×7	72 86 96	6.3×7 8×7	96 107	6.3×7 8×7	102 130						
220	6.3×7 8×7	78 103	6.3×7 8×7	110 140	6.3×7 8×7	139 145								
330	6.3×7	120	8×7	145										
470	8×7	140	8×7	150	8×7	160								

※以上最大体积为标准尺寸，其他为体积缩小品，寿命相应缩短