SM series

+105℃,7mmL(高)

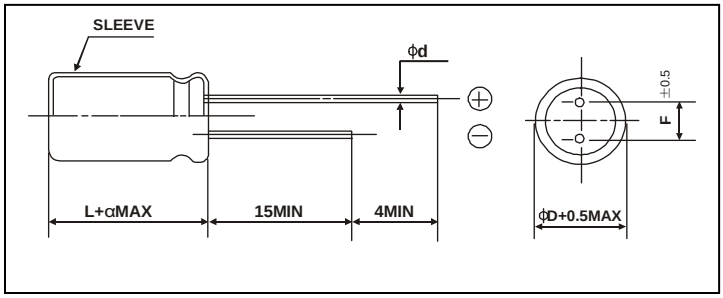
◆ FEATURES

- Rated working voltage range 6.3 to 50V DC Operation temperature range –40 to 105℃.
- This series is for commnication equipments,switching power supply,industrial measuring Instuments,automotive electric products,etc

◆ SPECIFICATIONS

Items	Characteristics
Category Temperature Rance	-40~+105℃
Rated Voltage Range	6.3~50V.DC
Nominal Capacitance Rance	0.1~470μF
Capacitance Tolerance	±20%(120Hz,+20˚C)
Leakage Current(MAX)	I=0.01CV or 3(uA) after 2 minutes whichever is greater measured with rated working voltage at 20℃
Dissipation Factor(MAX) Tanδ (20˚C,120Hz)	Rated Voltage(V): 6.3 / 10 / 16 / 25 / 35 / 50 Tanδ: 0.24 / 0.20 / 0.16 / 0.14 / 0.12 / 0.10
Load Life	After applying rated voltage with max ripple current for 1000 hrs at 105˚C,the capacitors shall meet the following requirements Capacitance Change: Within ±20% of the initial value Dissipation Factor: Not more than 200% of the specified value Leakage Current: Not more than the specified value
Shelf Life	After Leaving capacitors under no load at 105˚C for 1000hrs,they meet the characteristic requirements listed at right Capacitance change: Within ±20% of the initial value Tanδ: ≤200% of initial specified value Leakage current: ≤200% of initial specified value
Low Temperature Stability Impedance Rate(MAX)	Rated Voltage(V): 6.3 / 10 / 16 / 25 / 35 / 50 Z-25˚C/Z+20˚C: 4 / 3 / 2 / 2 / 2 / 2 Z-40˚C/Z+20˚C: 8 / 6 / 4 / 4 / 3 / 3
Other	JISC-5141 EIAJ RC-2372

◆ CASE SIZE TABLE



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

◆ RIPPLE CURRENT MULTIPLIER

Cap(μF)	Frequency(Hz)				
	50	120	300	1K	10K~
≤47	0.75	1.0	1.35	1.57	2.0
56~470	0.8	1.0	1.23	1.34	1.5

◆ STANDARD RATINGS

size:ΦD×L(mm)

Cap(μF) \ Voltage / Code		6.3V		10V		16V		25V		35V		50V	
		OJ		1A		1C		1E		1V		1H	
0.1	104											4×7	1.0
0.22	224											4×7	2.3
0.33	334											4×7	3.5
0.47	474											4×7	5
1.0	105											4×7	10
2.2	225											4×7	19
3.3	335											4×7	24
4.7	475											4×7	28
10	106					4×7	28	4×7	28	5×7	32	5×7	38
22	226	4×7	34	4×7	35	4×7	39	4×7 5×7	39 48	5×7	52	6.3×7	58
33	336	4×7	40	4×7	43	4×7 5×7	45 52	5×7	58	6.3×7	65	6.3×7	72
47	476	4×7	48	4×7	45	4×7 5×7	52 65	5×7 6.3×7	62 71	5×7 6.3×7	69 81	8×7	90
100	107	5×7	78	5×7	74	5×7 6.3×7	71 98	6.3×7 8×7	81 115	6.3×7 8×7	101 145	8×9	195
220	227	6.3×7	120	6.3×7	138	6.3×7	186						
330	337	8×9	204	8×7	201	8×9	221						
470	477	8×9	243	8×9	230	8×9	228						

Maximum Allowable Ripple Current(mA rms) at 105℃ 120Hz