



SYNTON-TECH CORPORATION

SMD ALUMINUM ELECTROLYTIC CAPACITORS

File No. : SEC-02-#D026

Version : A

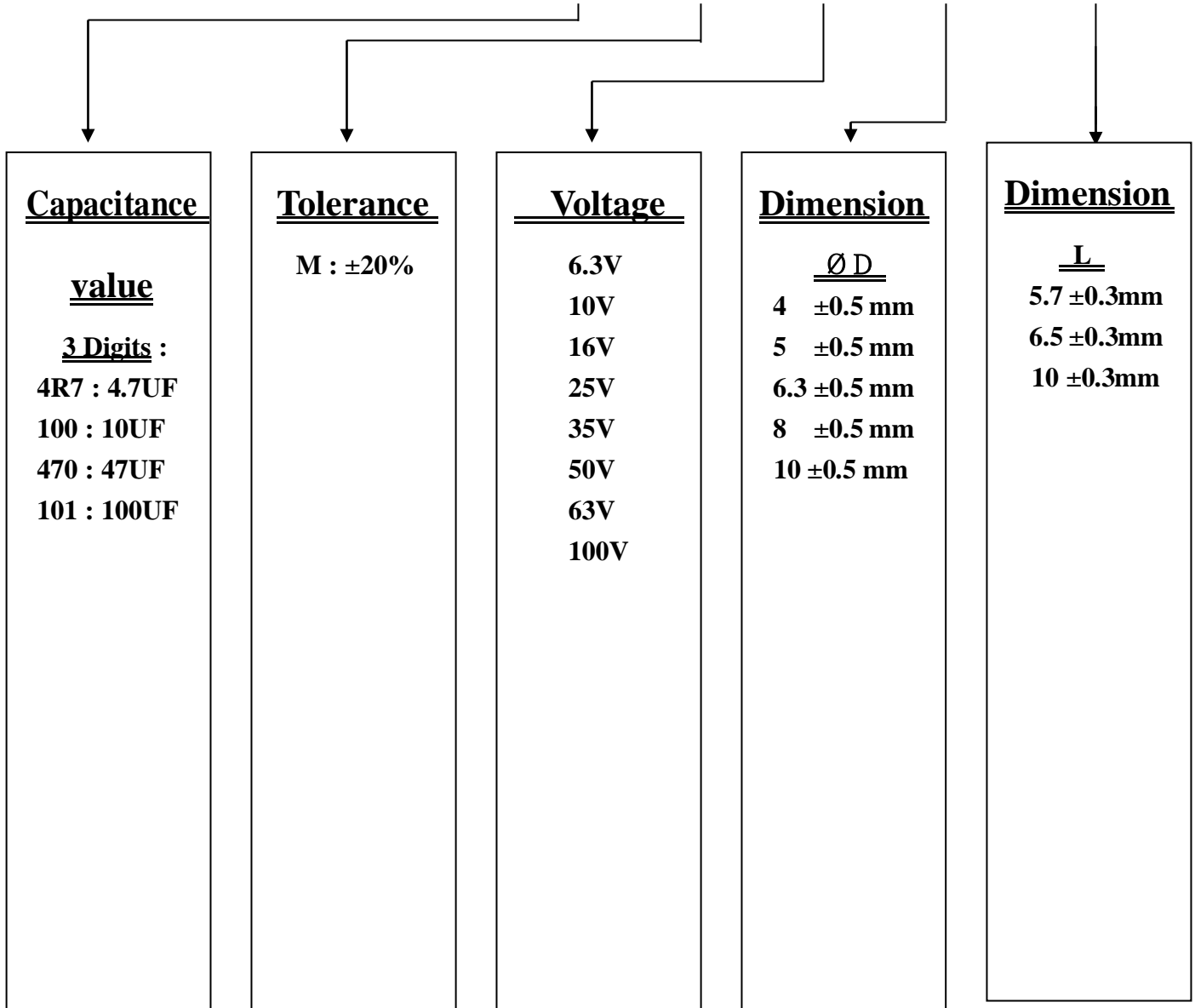
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Date : 2021.01.01

● Explanations Of Ordering Code

DESCRIPTION : SEC 47UF 20% 16V 6.3 X 5.7

SYNTON CODE : SEC 470 M 16V 6.3 X 5.7



Capacitance

value

3 Digits :
 4R7 : 4.7UF
 100 : 10UF
 470 : 47UF
 101 : 100UF

Tolerance

M : ±20%

Voltage

6.3V
 10V
 16V
 25V
 35V
 50V
 63V
 100V

Dimension

ØD
 4 ±0.5 mm
 5 ±0.5 mm
 6.3 ±0.5 mm
 8 ±0.5 mm
 10 ±0.5 mm

Dimension

L
 5.7 ±0.3mm
 6.5 ±0.3mm
 10 ±0.3mm

APPROVED	CHECKED	DESIGNED	REMARK	DOCUMENT NO.
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● Features

- 4~16Ø, 105°C, 2000 hours assured
- Designed for surface mounting on high density PC board
- RoHS Compliance

● Specifications

ITEM	PERFORMANCE												
Operating Temperature Range	-40 ~ + 105°C												
Capacitance tolerance	±20% (at 120Hz, 20°C)												
Leakage current (at 20°C)	6.3 ~ 100V	4~10Ø	I=0.01CV or 3 µA, whichever is greater, after 2 minutes at +20°C										
	6.3 ~ 100V	12.5~16Ø	I=0.03CV or 4 µA, whichever is greater, after 2 minutes at +20°C										
	160 ~450V	12.5~16Ø	I=0.04CV + 100 µA, after 5 minutes at +20°C										
	Where I=leakage current C=rated capacitance in µF. V=rated DC working voltage in V.												
Dissipation factor (Tan δ at 120Hz, 20°C)	Rated Voltage	63	10	16	25	35	50	63	100	160-250	400-450		
	4 ~ 10Ø	045	035	028	018	016	014	012	012	-	-		
	12.5 ~ 16Ø	040	038	034	026	022	018	014	010	020	025		
Low temperature characteristics(at 120Hz)	Impedance ratio shall not exceed the values given in the table below.												
	Rated Voltage		63	10	16	25	35	50	63	100	160-250	400-450	
	Impedance Ratio	Z(25°C)	4~10Ø	4	3	2	2	2	2	2	3	-	-
		Z(+20°C)	125~16Ø	5	4	3	2	2	2	2	2	3	6
		Z(40°C)	4~10Ø	12	8	6	4	3	3	3	4	-	-
Z(+20°C)		125~16Ø	10	8	6	4	3	3	3	3	6	10	



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Load life test	Test Time	2000 Hrs
	Capacitance Change	4 ~ 6.3 ϕ : Within $\pm 25\%$ of initial value 8 ~ 16 ϕ : Within $\pm 20\%$ of initial value
	Dissipation Factor	Less than 200% of specified value
	Leakage Current	Within specified value
	*The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 2,000 hrs at 105°C.	
Shelf life test	Test time: 1,000 hrs; other items are the same as those for the load life test.	
Other Standards	JIS C 5101-1,-18	

● $\oplus \oplus$ Diagram of Dimensions

Fig 1

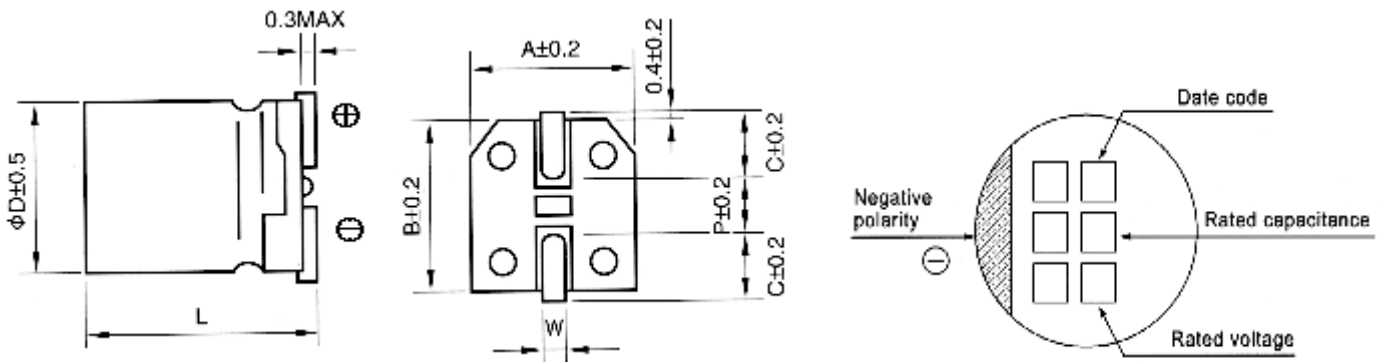
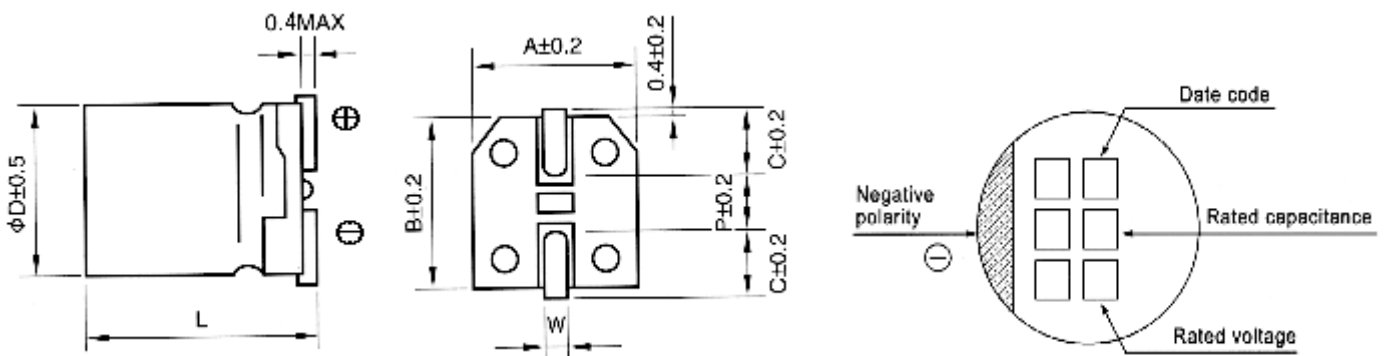


Fig 2





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Unit:mm

ØD	L±0.5	A	B	C	W	P	Fig No.
4	5.7	4.3	4.3	2.0	0.5 ~ 0.8	1.0	1
5	5.7	5.3	5.3	2.3	0.5 ~ 0.8	1.5	1
6.3	5.7	6.6	6.6	2.7	0.5 ~ 0.8	2.0	1
6.3	7.7	6.6	6.6	2.7	0.5 ~ 0.8	2.0	1
8	10	8.4	8.4	3.0	0.7 ~ 1.1	3.1	1
10	10	10.4	10.4	3.3	0.7 ~ 1.1	4.7	1
12.5	13.5	12.8	12.8	4.9	1.1 ~ 1.4	4.2	2
12.5	16	12.8	12.8	4.9	1.1 ~ 1.4	4.2	2
16	16.5	16.3	16.3	5.8	1.8 ~ 2.2	6.0	2

● Dimension & Permissible Ripple Current

WV uF	6.3V		10V		16V		25V		35V		50V		63V	
	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA
0.1											4X5.7	2		
0.22											4X5.7	3		
0.33											4X5.7	4		
0.47											4X5.7	5	4X5.7	5
1											4X5.7	10	4X5.7	8
2.2											4X5.7	16	4X5.7	12
3.3											4X5.7	18	5X5.7	17
4.7							4X5.7	13	4X5.7	16	5X5.7	20	63X5.7	22
10					4X5.7	17	5X5.7	23	5X5.7	27	63X5.7	32	63X5.7	32
22					5X5.7	30	63X5.7	38	63X5.7	44	63X5.7	47	63X7.7	58
33			5X5.7	30	63X5.7	45	63X5.7	50	63X5.7	54	63X7.7	65	8X10	140



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47	5X5.7	30	63X5.7	48	63X5.7	48	63X5.7	60	63X5.7	80	63X7.7	80	8X10	170
100	63X5.7	69	63X5.7	69	63X5.7	69	63X7.7	100	8X10	320	8X10	230	10X10	310
220	63X7.7	120	63X7.7	120	63X7.7	120	8X10	320	10X10	375	10X10	375	125X13.5	470
330	8X10	290	8X10	290	8X10	290	10X10	375	10X10	410	125X13.5	500	16X16.5	700
470	8X10	320	8X10	320	8X10	320	10X10	410	125X13.5	520	125X16	550	16X16.5	700
1000	10X10	410	10X10	410	125X13.5	550	125X16	550	16X16.5	750				
2200	125X13.5	680	125X16	750	16X16.5	950	16X16.5	820						
3300	125X16	850	16X16.5	1000	16X16.5	950								
4700	16X16.5	1000	16X16.5	1000										
6800	16X16.5	1000												

WV uF	100V		160V		200V		250V		400V		450V			
	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA	ØDxL	mA		
33							125X13.5	65			125X13.5	40		
4.7							125X13.5	68	125X13.5	50	125X13.5	50		
10					125X13.5	80	12.5X13.5	72	125X13.5	65	125X16	55		
22	8X10	100			12.5X13.5	90	125X13.5	90	16X16.5	85	16X16.5	85		
33	10X10	150	125X13.5	95	125X16	110	16X16.5	180						
47	125X13.5	250	125X16	110	16X16.5	220	16X16.5	180						
100	125X13.5	380	16X16.5	190										
220	16X16.5	450												