



# Miniature Aluminum Electrolytic Capacitors

Series

CSS

## FEATURES

- 1、 The SS series is employing etched foils for higher gain effect.
- 2、 Designed for use in VTRs, car radios, car stereos, micro-cassette tape recorders, pocket calculators and watches.

## SPECIFICATIONS

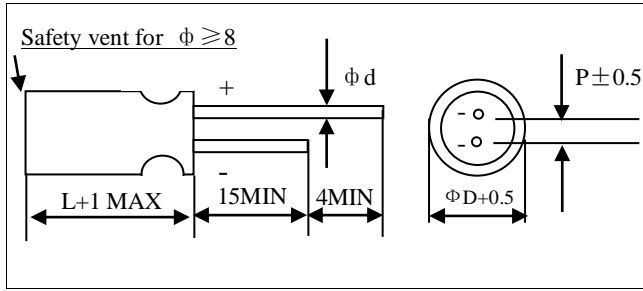
Item	Performance Characteristics																														
Operating Temperature Range	-40 to +85 °C																														
Rated Working voltage Range	6.3 to 50V																														
Nominal Capacitance Range	0.1 to 470(uF)																														
Capacitance Tolerance	±20% (120Hz, +20°C)																														
Leakage Current	whichever is greater measured after 2 minutes application $I \leq 0.01CV$ or $3(\mu A)$ of rated working voltage at +20°C																														
Dissipation Factor $\tan \delta$  (120Hz+20°C)	<table border="1"> <thead> <tr> <th>Working voltage(V)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Tan <math>\delta</math> (max.)</td> <td>0.35</td> <td>0.24</td> <td>0.21</td> <td>0.18</td> <td>0.15</td> <td>0.12</td> <td>0.10</td> </tr> </tbody> </table>	Working voltage(V)	4	6.3	10	16	25	35	50	Tan $\delta$ (max.)	0.35	0.24	0.21	0.18	0.15	0.12	0.10														
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High temperature Loading	Test conditions Duration :2000 hours Ambient temperature :+85°C Applied voltage :Rated DC working voltage Post test requirements at +20°C Leakage current : ≤ Initial specified value Capacitance change : ≤ ±20% of initial measured tan $\delta$ : ≤200% of initial specified value																														
Shelf life	Test conditions Duration :1000 hours Ambient temperature :+85°C Applied voltage : (None) Post test requirements at +20°C Same Limits for high temperature loading																														
Others	JIS C-5141 JIS C-5102																														



# Miniature Aluminum Electrolytic Capacitors

## CASE SIZE TABLE

Unit:mm



D φ	4	5	6.3	8
P	1.5	2.0	2.5	3.5
d φ (±0.05)	0.45	0.45	0.45	0.5

## DIMENSIONS

Φ D × L (mm)

WV(SV)		6.3V(8)		10V(13)		16V(20)	
Cap.(uF)	Code	0J		1A		1C	
10	106					4×7	28
22	226	4×7	34	4×7	35	4×7	39
33	336	4×7	40	4×7	43	(4)5×7	(45)59
47	476	4×7	48	(4)5×7	(45)59	(4)5×7	(58)65
100	157	5×7	78	(5)6.3×7	(74)87	(5)6.3×7	(85)98
220	227	6.3×7	120	(6.3)8×7	(138)145	(6.3)8×7	(165)186
330	337	8×7(9)	180(204)	8×7(9)	201(220)	8×7(9)	(215)230
470	477	8×7(9)	215(215)	8×7(9)	230(240)	Case Size	Allowable ripple

Φ D × L (mm)

WV(SV)		25V(32)		35V(44)		50V(63)	
Cap.(uF)	Code	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	5.0
1	105					4×7	10
2.2	225					4×7	19
3.3	335					4×7	24
4.7	475			4×7	24	4×7	28
10	106	4×7	28	4×7	31	5×7	38
22	226	(4)5×7	(42)48	5×7	52	6.3×7	58
33	336	5×7	58	6.3×7	65	8×7(9)	75(85)
47	476	(5)6.3×7	(68)71	(6.3)8×7	85(96)	8×9	101
100	107	(6.3)8×7	(105)115	8×9	141	Case Size	Allowable ripple

Allowable Ripple (mA rms) at 85°C 120Hz