

ALUMINUM ELECTROLYTIC CAPACITORS

>D5 5mm height Series

- Features : 85°C, 1000hrs, Low profile/Ultra Miniature, 5mm height
- Recommended Applications : AV(TV, Video, Audio), Monitor/Computer, OA/HA/Communication, Small signal
- Corresponding product to RoHS

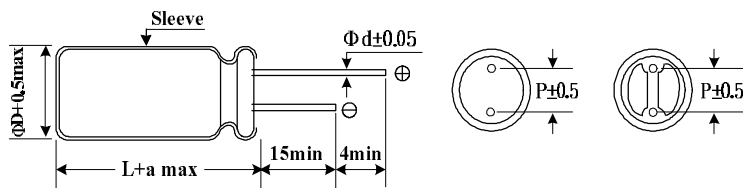
IS5
↑ High Temperature
ID5



Specifications

Item	Characteristics							
Operating Temperature Range	-40 ~ +85°C							
Rated Voltage Range	4 ~ 50VDC							
Rated Capacitance Range	0.1 ~ 220 μ F							
Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C							
Leakage Current (MAX) (20°C)	$I \leq 0.01CV$ or $3(\mu A)$, whichever is greater. (After rated voltage applied for 2 minutes) $I =$ Leakage Current (μA) $C =$ Nominal Capacitance (μF) $V =$ Rated Voltage (V)							
Dissipation Factor (MAX) (tan δ) (120Hz, 20°C)	WV	4	6.3	10	16	25	35	50
	tan δ	0.35	0.24	0.20	0.16	0.14	0.12	0.10
Low Temperature Stability Impedance Ratio (MAX)	Z(120Hz)	4	6.3	10	16	25	35	50
	Z(-25°C) / Z(+20°C)	6	4	3	2	2	2	2
	Z(-40°C) / Z(+20°C)	12	8	6	4	4	4	4
Endurance	After applying rated voltage for 1000 hours at 85°C the capacitors shall meet the following requirements.							
	Capacitance Change	Within $\pm 20\%$ of initial value						
	Dissipation Factor	Not more than 200% of the specified value						
	Leakage Current	Not more than in specified value						
Shelf Life	After placed at 85°C without voltage applied for 500 hours, the capacitors shall meet the same requirement as Endurance.							

Dimensions



ϕD	4	5	6.3
P	1.5	2	2.5
ϕd	0.45	0.45	0.45
a	1.0	1.0	1.0

Multiplier for Ripple Current

Frequency coefficient

WV(VDC) \ Freq.(Hz)	50	120	1K	10K
4 ~ 16	0.8	1.0	1.1	1.2
25 ~ 50	0.8	1.0	1.5	1.7

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■ Dimensions, Rated Ripple Current

Capacitance (μ F)	Rated (Surge) Voltage													
	4 (5)		6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1													4x5	1
0.22													4x5	2
0.33													4x5	3
0.47													4x5	5
1													4x5	10
2.2													4x5	15
3.3													4x5	20
4.7							4x5	10	4x5	15	4x5	20	5x5	25
10			4x5	20	4x5	20	4x5	25	4x5	30	5x5	35	6.3x5	40
22	4x5	25	4x5	30	5x5	30	5x5	35	5x5	40	6.3x5	55	6.3x5	60
33	4x5	30	5x5	35	5x5	40	5x5	45	6.3x5	60				
47	5x5	35	5x5	40	6.3x5	50	6.3x5	60						
100	6.3x5	60	6.3x5	70	6.3x5	75	6.3x5	95						
220	6.3x5	80	6.3x5	95										

☆ Size: D ϕ x L (mm) ☆ Ripple Current : mA/rms, 85°C, 120Hz