

ALUMINUM ELECTROLYTIC CAPACITOR (CD117 WS / CD117H WH)

WS, WH FEATURE

- WS is high stability, low dissipation factor, low leakage current, used in high stability circuits.
- WH is wide temperature range ,long life:105°C,1000 hours, high stability ,other same as CD117

SPECIFICATIONS

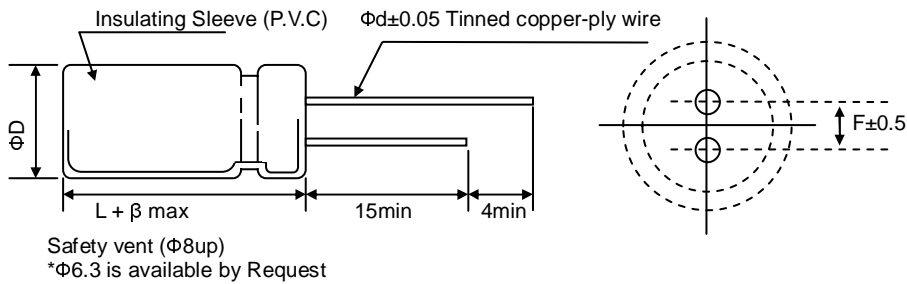
Item	Performance Characteristics				
Rated Voltage Range	CD117:-40°C~ +85°C CD117H:-40°C ~+105°C				
Operating Temperature Range	10V.DC-50V.DC				
Nominal Capacitance Range	0.47μF-47μF				
Capacitance Tolerance	±20% (M · +25°C · 120Hz)				
Leakage Current	After application of rated voltage for 2minutes : $I \leq 0.01CV$ or $3 \mu A$ (Whichever is greater) 25°C C: Nominal Capacitance in μF;V: Rated Working Voltage in V				
Dissipation Factor (tanδ)	Rated Working Voltage(V)	10	16	25	50
	tan δ(MAX)(25°C ,120Hz)	0.10	0.10	0.10	0.10
Temperature Stability	Impedance Ratio(120Hz):Z-40°C/Z+20°C:4				
Load Life	After applying rated voltage for 1000 hours at +85°C (WH:+105 °C),capacitors meet characteristics requirements measured at +25°C listed below Capacitance change: 20% initial measured value Leakage current :≤ Initial specified value Dissipation factor :≤1.5 initial specified value				
Shelf Life	After leaving capacitors under no load for 500 hours at +85°C (WH:+105° C) capacitors meet the characteristic listed above				

MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Cap(μF) \ Freq(Hz)	50(60)	100(120)	300	1k	10k
0.47~47	0.8	1.0	1.20	1.30	1.50

CASE SIZE TABLE



β	0.5		1.0			
ΦD	6.3	8	10		12	
L	11	12 16	14	17	20	20
$F \pm 0.5$	2.5	3.5	5			
$\Phi d \pm 0.1$	0.5		0.6			
α	1.0	$L < 17: 1.0 \quad L \geq 17: 2.0$				

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DIMENSIONS, RATED VOLTAGE RANGE AND CAPACITANCE

uF \ V	10		16		25		50	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
0.47							6.3x11	14
1					6.3x11	20	6.3x11	20
2.2			6.3x11	26	6.3x11	26	6.3x11	26
3.3			6.3x11	32	6.3x11	32	6.3x11	32
4.7	6.3x11	43	6.3x11	40	6.3x11	40	8x12	43
10	8x12	75	8x12	65	8x16 (10x14)	70	10x17	75
22	8x18 (10x14)	131	8x16 (10x14)	100	10x17	110	10x20	131
33	10x17	120	10x17	120	10x20	150	12x20	176
47	10x20	150	10x20	150	12x20	172		

(1) Case Size DxL(mm)

(2) Max allowable ripple current (mArms 120Hz)