

SMD ALUMINUM ELECTROLYTIC CAPACITORS

- CVB SERIES -

FEATURES

- +105°C for 2,000 hours
- Bi-Polar
- Solvent proof (within 2 minutes)



SPECIFICATIONS

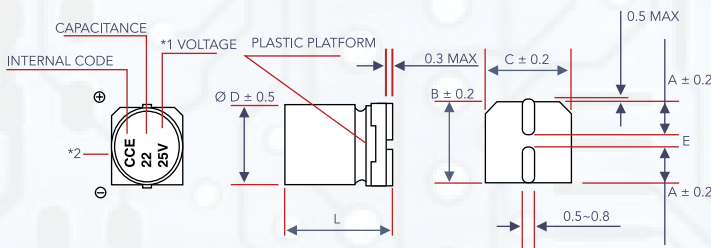
ITEM	SPECIFICATION																				
Operating Temperature Range	-55°C ~ +105°C																				
Voltage Range	6.3V ~ 50 VDC																				
Surge Voltage	8.0V ~ 63 VDC																				
Capacitance Tolerance	±20% at 120Hz, 20°C																				
Leakage Current	0.03 CV + 6µA (µA / after 2 minutes (max))																				
Dissipation Factor	Measurement: 120Hz Temperature: 20°C																				
	<table border="1"> <thead> <tr> <th>RATED VOLTAGE (V)</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 δ (MAX)</td> <td>0.32</td> <td>0.26</td> <td>0.24</td> <td>0.22</td> <td>0.20</td> <td>0.20</td> </tr> </tbody> </table>	RATED VOLTAGE (V)	6.3	10	16	25	35	50	TAN δ (MAX)	0.32	0.26	0.24	0.22	0.20	0.20						
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Stability at Low Temperature	Measurement: 120Hz																				
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Endurance	After 5000 hours x 4 (alternately), 105°C, rated voltage applied (with the rated ripple current)																				
	CAPACITANCE CHANGE	Within ±30% of initial value																			
	DISSIPATION FACTOR	Less than 300% of the specified value																			
	LEAKAGE CURRENT	Less than the specified value																			

PART NUMBER

CVB	1C	100	M	D55	R
SERIES NAME	RATED VOLTAGE	CAPACITANCE	TOLERANCE	CASE SIZE	PACKAGE TYPE
Series is represented by a three/four digit code	OJ - 6.3V 1A - 10V 1C - 16V 1E - 25V 1V - 35V 1H - 50V	4R7 - 4.7µF 100 - 10µF 471 - 470µF 102 - 1000µF	M: -20% ~+20%	D55-4x5.4 E55-5x5.4 F55-6.3x5.4 F80-6.3x7.7	R - Taping polarity with reel package in 380mm

DIMENSIONS

- *1 Voltage mark for 6.3V is [6V] or [6.3V]



ØD x L	4 x 5.4	5 x 5.4	6.3 x 5.4	6.3 x 7.7
A	1.8	2.1	2.4	2.4
B	4.3	5.3	6.6	6.6
C	4.3	5.3	6.6	6.6
E ± 0.2	1.0	1.3	2.2	2.2
L ± 0.6	5.4	5.4	5.4	7.7



FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

FREQUENCY		$100 \leq F < 1k$	$1k \leq F < 10k$	$10k \leq F < 100k$	$100k \leq F$
CAPACITANCE: C (μ F)	$C \leq 4.7$	1.00	1.30	1.50	1.80
	$4.7 < C \leq 33$	1.00	1.20	1.30	1.45
	$33 < C$	1.00	1.10	1.20	1.30



STANDARD SIZE

- Allowable Ripple (mA ms) at 85°C 120Hz

WV	CAP (μ F)	6.3		10		16		25		35		50	
		0J		1A		1C		1E		1V		1H	
		CASE SIZE	RIPPLE CURRENT	CASE SIZE	RIPPLE CURRENT	CASE SIZE	RIPPLE CURRENT	CASE SIZE	RIPPLE CURRENT	CASE SIZE	RIPPLE CURRENT	CASE SIZE	RIPPLE CURRENT
1	010	--	--	--	--	--	--	--	--	--	--	4 x 5.4	10
2.2	2R2	--	--	--	--	--	--	--	--	4 x 5.4	8.4	5 x 5.4	15
3.3	3R3	--	--	--	--	--	--	4 x 5.4	10	5 x 5.4	16	5 x 5.4	18
4.7	4R7	--	--	--	--	4 x 5.4	12	5 x 5.4	16	5 x 5.4	18	6.3 x 5.4	20
10	100	--	--	4 x 5.4	17	5 x 5.4	23	6.3 x 5.4	28	6.3 x 5.4	27	6.3 x 5.4	25
22	220	--	--	5 x 5.4	28	6.3 x 5.4	37	6.3 x 5.4	35	6.3 x 5.4	30	6.3 x 7.7	35
33	330	6.3 x 5.4	37	6.3 x 5.4	33	6.3 x 5.4	49	6.3 x 7.7	50	6.3 x 7.7	35	--	--
47	470	6.3 x 5.4	45	6.3 x 5.4	41	6.3 x 7.7	55	--	--	--	--	--	--
100	101	6.3 x 7.7	82	6.3 x 7.7	60	--	--	--	--	--	--	--	--

