

# CVS

## Surface Mount Aluminum Polymer Electrolytic Capacitors



### Features

- Low ESR
- High current
- High frequency
- High temperature
- Lead free
- RoHS Compliant

Operating Temperature Range		-55°C to +105°C							
Capacitance Tolerance		±20% at 120 Hz, 20°C							
Surge voltage	WVDC	2.5	4	6.3	10	16	20	25	
	SVDC	3.3	5.2	8.2	11.5	18.4	23	28.7	
Dissipation Factor (120 Hz, 20°C)	WVDC	2.5	4	6.3	10	16	20	25	
	tan δ	10% Maximum							
ESR (100kHz,20°C)		See Part Listing							
Leakage current (2 Minutes,20°C)		See Part Listing							
Low temperature stability Impedance ratio (100 kHz)	Rated WVDC	2.5	4	6.3	10	16	20	25	
	+105°C/+20°C	≤ 1.25							
	-55°C/ +20°C	≤ 1.25							
Load Life	2000 Hours at rated voltage and +105°C								
	Capacitance change	≤20% of initial measured value							
	Dissipation factor/ESR	≤150% of maximum specified value							
	Leakage current	≤100% of maximum specified value							
Damp heat	1000 hours at 60°C, 90 to 95% RH with no voltage applied								
	Capacitance change	≤20% initial measured value							
	Dissipation factor/ESR	≤150% of maximum specified value							
	Leakage current	≤100% of maximum specified value							
Resistance to soldering heat	Vapor phase system (230°C+/-5°C for 75 seconds)								
	Capacitance change	≤10% of initial measured value							
	Dissipation factor/ESR	≤130% of maximum specified value							
	Leakage current	≤100% of maximum specified value							

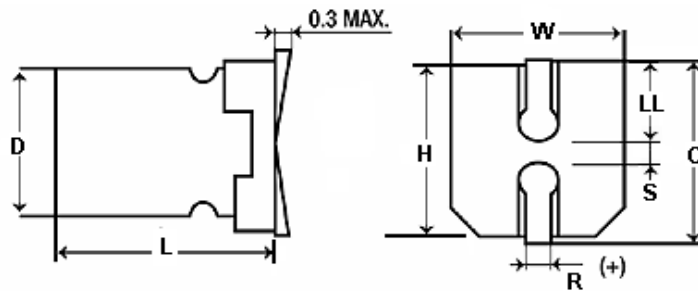


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## Physical Dimensions

WVDC (SV) μF	2.5 (3.3)	4 (5.2)	6.3 (8.2)	10 (11.5)	16 (18.4)	20 (23)	25 (28.7)
6.8	-----	-----	-----	-----	-----	----->	6.3x5.9
10	-----	-----	-----	-----	-----	----->	8X6.9
22	-----	-----	-----	-----	----->	6.3x5.9	
27	-----	-----	-----	----->	6.3X5.9	6.3x5.9	6.3x5.9
33	-----	-----	-----	-----	----->	8X6.9	8X11.9
39	-----	-----	-----	----->	6.3X5.9		
47	-----	-----	----->	6.3x5.9	6.3X5.9	8X6.9	
56	-----	-----	----->	6.3X5.9	8X6.9	----->	10X12.6
82	-----	----->	6.3X5.9	----->	8X6.9		
100	----->	6.3X5.9	6.3X5.9	----->	8X6.9	8X11.9	8X11.9
120	-----	----->	6.3x5.9 8X6.9	8X6.9			
150	----->	6.3X5.9	8X6.9	8X6.9	----->	10X12.6	10X12.6
180	-----	-----	-----	----->	8X11.9	----->	10X12.6
220	6.3X5.9	----->	8x6.9	-----	-----	----->	10X12.6
270	-----	-----	-----	-----	----->	10X12.6	
330	----->	8X6.9	----->	8X11.9	10X12.6		
470	8X6.9	----->	8X11.9	----->	10X12.6		
560	----->	8X11.9	----->	10X12.6			
680	8X11.9						
820	-----	----->	10X12.6				
1000	-----	----->	10X12.6				
1200	----->	10X12.6					
1500	10X12.6						



D+0.5	L+1/-4	W+0.2	H+0.2	C+0.2	S+0.2	R
6.3	5.9	6.6	6.6	7.3	2.1	.7+0.1
8	6.9	8.3	8.3	9	3.2	.7+0.1
8	11.9	8.3	8.3	9	3.2	.95+0.15
10	12.6	10.3	10.3	11	4.6	.95+0.15



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## Standard Part Listing

Cap (uF)	WVDC	IC PART #	Maximum ESR $\Omega$ 100kHz 20°C	Leakage Current (uA) 2 minutes 20°C	Maximum RMS ripple current (mA) 100 kHz, 105°C	Dimensions DxL (mm)
6.8	25	685CVS025MEG	80	85	1200	6.3X5.9
10	25	106CVS025MFG	60	125	1500	8x6.9
22	20	276CVS020MEG	60	88	1450	6.3X5.9
27	16	276CVS016MEG	50	86	1620	6.3X5.9
27	20	276CVS020MEG	60	108	1450	6.3X5.9
27	25	276CVS025MEG	40	135	1500	6.3X5.9
33	20	336CVS020MFG	45	132	1890	8x6.9
33	25	336CVS025MFM	30	413	2980	8x11.9
39	16	396CVS016MEG	50	125	1620	6.3X5.9
47	10	476CVS010MEG	50	94	1620	6.3X5.9
47	16	476CVS016MEG	50	150	1620	6.3X5.9
47	20	476CVS020MFG	45	188	1890	8x6.9
56	10	566CVS010MEG	45	112	1700	6.3X5.9
56	16	566CVS016MFG	45	179	1890	8x6.9
56	25	566CVS025MGN	28	700	3800	10x12.6
82	6.3	826CVS6R3MEG	45	103	1700	6.3X5.9
82	16	826CVS016MFG	40	262	2120	8x6.9
100	4	107CVS004MEG	45	80	1810	6.3X5.9
100	6.3	107CVS6R3MEG	40	126	1810	6.3X5.9
100	16	107CVS016MFG	40	320	2120	8x6.9
100	20	107CVS020MFM	24	400	3320	8x11.9
100	25	107CVS025MFM	30	500	3320	8x11.9
120	6.3	127CVS6R3MEG	40	151	1810	6.3X5.9
120	6.3	127CVS6R3MFG	50	151	2560	8x6.9
120	10	127CVS010MFG	35	240	2560	8x6.9
150	4	157CVS004MEG	40	120	1810	6.3X5.9
150	6.3	157CVS6R3MFG	40	189	2560	8x6.9
150	10	157CVS010MFG	35	300	2560	8x6.9
150	20	157CVS020MGN	20	600	4320	10x12.6
150	25	157CVS025MGN	25	750	3800	10x12.6
180	16	187CVS016MFM	20	576	3640	8x11.9
180	25	187CVS025MGN	25	900	3800	10x12.6
220	2.5	227CVS2R5MEG	23	110	2390	6.3X5.9
220	6.3	227CVS6R3MFG	35	277	2560	8X6.9
220	25	227CVS025MGN	25	1100	3800	10x12.6
270	20	277CVS020MGN	20	1080	4320	10x12.6
330	4	337CVS004MFG	35	264	2560	8x6.9
330	10	337CVS010MFM	17	660	3950	8x11.9
330	16	337CVS016MGN	16	1056	4720	10x12.6
470	2.5	477CVS2R5MFG	23	235	3300	8x6.9
470	6.3	477CVS6R3MFM	15	592	4210	8x11.9
470	16	477CVS016MGN	16	1504	4720	10x12.6
560	4	567CVS004MFM	13	448	4520	8x11.9
560	10	567CVS010MGN	13	1120	5230	10x12.6
680	2.5	687CVS2R5MFM	13	340	4520	8x11.9
820	6.3	827CVS6R3MGN	12	1033	5440	10x12.6
1000	6.3	108CVS6R3MGN	12	1260	5440	10x12.6
1200	4	128CVS004MGN	12	960	5440	10x12.6
1500	2.5	158CVS2R5MGN	12	750	5440	10x12.6

