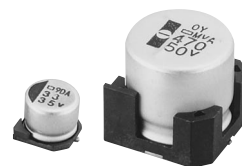


Alchip™-MVA Series

- $\phi 4$ through $\phi 18$ case sizes are fully lined up
- Endurance : 2,000 hours at 85°C
- Suitable to fit for downsized equipment
- Solvent resistant type except 100 to 450V_{dc} (see PRECAUTIONS AND GUIDELINES)
- RoHS Compliant

MVA $\xrightarrow{105^\circ\text{C}}$ MVE

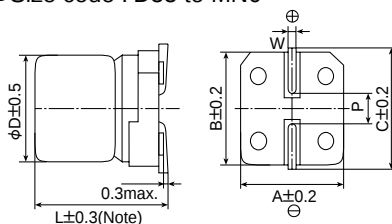
◆ SPECIFICATIONS

Items	Characteristics												
Category Temperature Range	-40 to +85℃												
Rated Voltage Range	4 to 450V _{dc}												
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)												
Leakage Current	Rated voltage (V _{dc})	4 to 100V							160 to 450V				
	D55 to JA0	I=0.01CV or 3μA, whichever is greater.(after 2 minutes)							—				
	KE0 to MN0	I=0.03CV or 4μA, whichever is greater.(after 1 minute)							I=0.04CV+100μA max.(after 1 minute)				
	Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃)												
Dissipation Factor (tanδ)	Rated voltage (V _{dc})	4V	6.3V	10V	16V	25V	35V	50V	63V	100V	160 to 250V	400 & 450V	
	tanδ (Max.)	D55 to JA0	0.42	0.35	0.30	0.26	0.16	0.14	0.12	0.12	0.12	—	—
		KE0 to MN0	—	0.38	0.34	0.30	0.26	0.22	0.18	0.14	0.10	0.20	0.25
	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20℃, 120Hz)												
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	4V	6.3V	10V	16V	25V	35V	50V	63V	100V	160 to 250V	400 & 450V	
	D55 to JA0	Z(-25℃)/Z(+20℃)	7	4	3	2	2	2	2	3	4	—	—
		Z(-40℃)/Z(+20℃)	17	10	8	6	4	3	3	3	4	—	—
	KE0 to MN0	Z(-25℃)/Z(+20℃)	—	5	4	3	2	2	2	2	2	3	6
		Z(-40℃)/Z(+20℃)	—	12	10	8	5	4	3	3	3	6	10
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 2,000 hours at 85℃.												
	Size code	D55 to JA0				D55 to JA0				KE0 to MN0			
	Rated voltage (V _{dc})	4V & 6.3V				10 to 100V				6.3 to 450V			
	Capacitance change	≤±30% of the initial value				≤±20% of the initial value							
	DF (tanδ)	≤200% of the initial specified value				≤200% of the initial specified value							
	Leakage current	≤The initial specified value				≤The initial specified value							
	Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 85℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.											
Size code		D55 to JA0				D55 to JA0				KE0 to MN0			
Rated voltage		4V & 6.3V				10 to 100V				6.3 to 450V			
Capacitance change		≤±30% of the initial value				≤±20% of the initial value							
DF (tanδ)		≤200% of the initial specified value				≤200% of the initial specified value							
Leakage current		≤The initial specified value				≤The initial specified value							

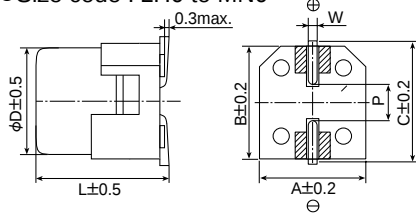
◆ DIMENSIONS [mm]

- Terminal Code : A
- Size code : D55 to MNO

- Terminal Code : G
- Size code : LH0 to MNO



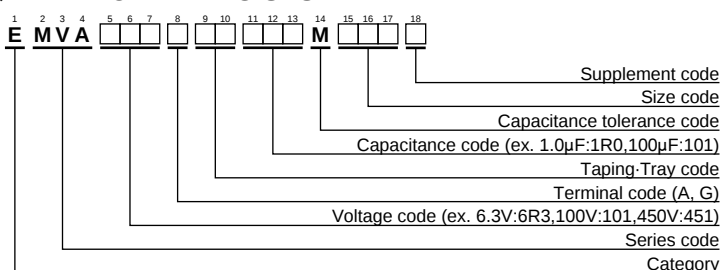
Note : L±0.5 for HA0 to MNO



⊠ : Dummy terminals

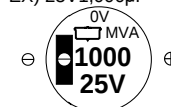
Size code	D	L	A	B	C	W	P
D55	4	5.2	4.3	4.3	5.1	0.5 to 0.8	1.0
E55	5	5.2	5.3	5.3	5.9	0.5 to 0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5 to 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7 to 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 to 1.1	4.5
KE0	12.5	13.5	13.0	13.0	13.7	1.0 to 1.3	4.2
KG5	12.5	16.0	13.0	13.0	13.7	1.0 to 1.3	4.2
LH0	16	16.5	17.0	17.0	18.0	1.0 to 1.3	6.5
LN0	16	21.5	17.0	17.0	18.0	1.0 to 1.3	6.5
MH0	18	16.5	19.0	19.0	20.0	1.0 to 1.3	6.5
MNO	18	21.5	19.0	19.0	20.0	1.0 to 1.3	6.5

◆ PART NUMBERING SYSTEM



Please refer to "Product code guide (surface mount type)"

◆ MARKING

D55 to JA0
EX) 16V47μFKE0 to HNO
EX) 25V1,000μF

◆STANDARD RATINGS

□ is not solvent resistant.

WV (Vdc)	Cap (μF)	Size code	tanδ	Rated ripple current (mA _{rms} /85°C,120Hz)	Part No.	WV (Vdc)	Cap (μF)	Size code	tanδ	Rated ripple current (mA _{rms} /85°C,120Hz)	Part No.
4	33	D55	0.42	25	EMVA4R0ADA330MD55G	35	33	F55	0.14	54	EMVA350ADA330MF55G
	47	D55	0.42	30	EMVA4R0ADA470MD55G		100	F80	0.14	120	EMVA350ADA101MF80G
	100	E55	0.42	50	EMVA4R0ADA101ME55G		150	HA0	0.14	210	EMVA350ADA151MHA0G
	220	F55	0.42	80	EMVA4R0ADA221MF55G		220	HA0	0.14	260	EMVA350ADA221MHA0G
	330	F80	0.42	135	EMVA4R0ADA331MF80G		330	JA0	0.14	360	EMVA350ADA331MJA0G
	470	F80	0.42	150	EMVA4R0ADA471MF80G		470	KE0	0.22	600	EMVA350ARA471MKE0S
6.3	1,000	HA0	0.42	320	EMVA4R0ADA102MHA0G	50	1,000	LH0	0.22	1,100	EMVA350□DA102MLH0S
	33	D55	0.35	30	EMVA6R3ADA330MD55G		2,200	MN0	0.24	1,700	EMVA350□DA222MMN0S
	47	D55	0.35	33	EMVA6R3ADA470MD55G		3.3	D55	0.12	15	EMVA500ADA3R3MD55G
	100	E55	0.35	55	EMVA6R3ADA101ME55G		4.7	D55	0.12	18	EMVA500ADA4R7MD55G
	220	E55	0.35	88	EMVA6R3ADA221MF55G		10	E55	0.12	30	EMVA500ADA100ME55G
	330	F80	0.35	135	EMVA6R3ADA331MF80G		22	F55	0.12	47	EMVA500ADA220MF55G
	470	HA0	0.35	280	EMVA6R3ADA471MHA0G		33	F80	0.12	70	EMVA500ADA330MF80G
	680	HA0	0.35	290	EMVA6R3ADA681MHA0G		47	F80	0.12	85	EMVA500ADA470MF80G
	820	HA0	0.35	320	EMVA6R3ADA821MHA0G		100	HA0	0.12	190	EMVA500ADA101MHA0G
	1,000	JA0	0.35	430	EMVA6R3ADA102MJA0G		220	JA0	0.12	320	EMVA500ADA221MJA0G
	1,500	JA0	0.35	480	EMVA6R3ADA152MJA0G		330	KE0	0.18	600	EMVA500ARA331MKE0S
	2,200	KE0	0.40	890	EMVA6R3ARA222MKE0S		470	KG5	0.18	740	EMVA500ARA471MKG5S
	3,300	KG5	0.42	1,000	EMVA6R3ARA332MKG5S		470	LH0	0.18	850	EMVA500□DA471MLH0S
	3,300	LH0	0.42	1,200	EMVA6R3□DA332MLH0S		1,000	LN0	0.18	1,300	EMVA500□DA102MLN0S
10	4,700	LH0	0.44	1,400	EMVA6R3□DA472MLH0S	63	1,000	MN0	0.18	1,400	EMVA500□DA102MMN0S
	6,800	LN0	0.48	1,750	EMVA6R3□DA682MLN0S		1.0	D55	0.12	8.0	EMVA630ADA1R0MD55G
	6,800	MH0	0.48	1,700	EMVA6R3□DA682MMH0S		2.2	D55	0.12	12	EMVA630ADA2R2MD55G
	10,000	MN0	0.56	2,000	EMVA6R3□DA103MMN0S		3.3	E55	0.12	17	EMVA630ADA3R3ME55G
	22	D55	0.30	26	EMVA100ADA220MD55G		4.7	E55	0.12	20	EMVA630ADA4R7ME55G
	33	D55	0.30	30	EMVA100ADA330MD55G		10	F55	0.12	32	EMVA630ADA100MF55G
	47	E55	0.30	44	EMVA100ADA470ME55G		22	F80	0.12	60	EMVA630ADA220MF80G
	100	F55	0.30	70	EMVA100ADA101MF55G		33	HA0	0.12	110	EMVA630ADA330MHA0G
	150	F55	0.30	79	EMVA100ADA151MF55G		47	HA0	0.12	130	EMVA630ADA470MHA0G
	220	F80	0.30	130	EMVA100ADA221MF80G		56	JA0	0.12	160	EMVA630ADA560MJA0G
16	330	HA0	0.30	270	EMVA100ADA331MHA0G	100	68	JA0	0.12	170	EMVA630ADA680MJA0G
	470	HA0	0.30	280	EMVA100ADA471MHA0G		100	KE0	0.14	380	EMVA630ARA101MKE0S
	1,000	JA0	0.30	430	EMVA100ADA102MJA0G		220	KE0	0.14	580	EMVA630ARA221MKE0S
	2,200	KE0	0.36	960	EMVA100ARA222MKE0S		330	KG5	0.14	720	EMVA630ARA331MKG5S
	3,300	LH0	0.38	1,300	EMVA100□DA332MLH0S		330	LH0	0.14	820	EMVA630□DA331MLH0S
	4,700	LN0	0.40	1,550	EMVA100□DA472MLN0S		470	LH0	0.14	950	EMVA630□DA471MLH0S
	4,700	MH0	0.40	1,600	EMVA100□DA472MMH0S		470	MH0	0.14	1,000	EMVA630□DA471MMH0S
	6,800	MN0	0.44	1,850	EMVA100□DA682MMN0S	160	22	HA0	0.12	90	EMVA101ADA220MHA0G
	22	D55	0.26	26	EMVA160ADA220MD55G		33	JA0	0.12	120	EMVA101ADA330MJA0G
	33	E55	0.26	37	EMVA160ADA330ME55G		68	KE0	0.10	380	EMVA101ARA680MKE0S
	47	E55	0.26	44	EMVA160ADA470ME55G		100	KE0	0.10	440	EMVA101ARA101MKE0S
	100	F55	0.26	70	EMVA160ADA101MF55G		220	LN0	0.10	850	EMVA101□DA221MLN0S
	150	F80	0.26	110	EMVA160ADA151MF80G		220	MH0	0.10	800	EMVA101□DA221MMH0S
25	220	F80	0.26	130	EMVA160ADA221MF80G	200	330	MN0	0.10	1,000	EMVA101□DA331MMN0S
	330	HA0	0.26	270	EMVA160ADA331MHA0G		47	KG5	0.20	370	EMVA161ARA470MKG5S
	470	HA0	0.26	280	EMVA160ADA471MHA0G		68	LH0	0.20	500	EMVA161□DA680MLH0S
	680	JA0	0.26	380	EMVA160ADA681MJA0G		100	LN0	0.20	590	EMVA161□DA101MLN0S
	1,000	KE0	0.30	710	EMVA160ARA102MKE0S		100	MH0	0.20	590	EMVA161□DA101MMH0S
	2,200	LH0	0.32	1,150	EMVA160□DA222MLH0S	250	22	KE0	0.20	240	EMVA201ARA220MKE0S
	3,300	LN0	0.34	1,450	EMVA160□DA332MLN0S		33	KG5	0.20	310	EMVA201ARA330MKG5S
	3,300	MH0	0.34	1,450	EMVA160□DA332MMH0S		47	LH0	0.20	420	EMVA201□DA470MLH0S
	4,700	MN0	0.36	1,750	EMVA160□DA472MMN0S		68	LN0	0.20	510	EMVA201□DA680MLN0S
	10	D55	0.16	24	EMVA250ADA100MD55G		68	MH0	0.20	510	EMVA201□DA680MMH0S
	22	E55	0.16	41	EMVA250ADA220ME55G	400	100	MN0	0.20	590	EMVA201□DA101MMN0S
35	33	E55	0.16	47	EMVA250ADA330ME55G		10	KE0	0.20	150	EMVA251ARA100MKE0S
	47	F55	0.16	60	EMVA250ADA470MF55G		22	KG5	0.20	240	EMVA251ARA220MKG5S
	56	F55	0.16	66	EMVA250ADA560MF55G		33	LH0	0.20	340	EMVA251□DA330MLH0S
	100	F80	0.16	120	EMVA250ADA101MF80G		47	LN0	0.20	420	EMVA251□DA470MLN0S
	150	HA0	0.16	210	EMVA250ADA151MHA0G		47	MH0	0.20	420	EMVA251□DA470MMH0S
	220	HA0	0.16	260	EMVA250ADA221MHA0G		68	MN0	0.20	490	EMVA251□DA680MMN0S
	330	HA0	0.16	300	EMVA250ADA331MHA0G	450	4.7	KE0	0.25	120	EMVA401ARA4R7MKE0S
	470	JA0	0.16	400	EMVA250ADA471MJA0G		10	LH0	0.25	140	EMVA401□DA100MLH0S
	1,000	KE0	0.26	820	EMVA250ARA102MKE0S		22	LN0	0.25	280	EMVA401□DA220MLN0S
	2,200	LN0	0.28	1,450	EMVA250□DA222MLN0S		22	MH0	0.25	280	EMVA401□DA220MMH0S
	2,200	MH0	0.28	1,400	EMVA250□DA222MMH0S		33	MN0	0.25	350	EMVA401□DA330MMN0S
	3,300	MN0	0.30	1,800	EMVA250□DA332MMN0S		4.7	KE0	0.25	120	EMVA451ARA4R7MKE0S
35	4.7	D55	0.14	18	EMVA350ADA4R7MD55G	450	10	LH0	0.25	140	EMVA451□DA100MLH0S
	10	D55	0.14	24	EMVA350ADA100MD55G		22	LN0	0.25	280	EMVA451□DA220MLN0S
	22	E55	0.14	41	EMVA350ADA220ME55G		33	MN0	0.25	350	EMVA451□DA330MMN0S

□ : Enter the appropriate terminal code.

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