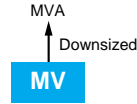


Alchip™ - MV Series

- Height 5.2 to 10.0mm
- Suitable to fit for downsized equipment
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS Compliant
- MV series will be discontinued, strongly recommended MVA series

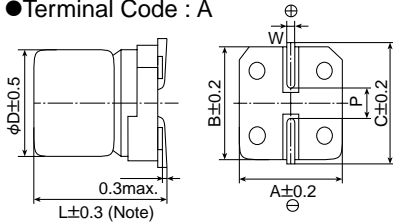


◆ SPECIFICATIONS

Items	Characteristics										
Category Temperature Range	-40 to +85°C										
Rated Voltage Range	4 to 63V _{dc}										
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)										
Leakage Current	I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)										
Dissipation Factor (tanδ)	Rated voltage (V _{dc})	4V	6.3V	10V	16V	25V	35V	50V	63V	(at 20°C, 120Hz)	
	tanδ (Max.)	D55 to F60	0.42	0.24	0.20	0.16	0.14	0.12	0.10		0.12
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	Z(-25°C)/Z(+20°C)	4V	6.3V	10V	16V	25V	35V	50V	63V	(at 120Hz)
			7	4	3	2	2	2	2	2	
	Z(-40°C)/Z(+20°C)	D55 to F60	15	10	8	6	4	3	3	3	
		H63 to JA0	—	10	8	6	4	3	3	3	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 85°C.										
	Capacitance change	≤±20% of the initial value									
	D.F. (tanδ)	≤200% of the initial specified value									
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 85°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.										
	Capacitance change	≤±15% of the initial value									
	D.F. (tanδ)	≤150% of the initial specified value									
	Leakage current	≤The initial specified value									

◆ DIMENSIONS [mm]

● Terminal Code : A



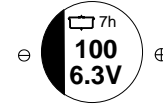
Note : L±0.5 for H63 to JA0

Size code	D	L	A	B	C	W	P
D55 & D60	4	*5.2	4.3	4.3	5.1	0.5 to 0.8	1.0
E55 & E60	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
H63	8	6.3	8.3	8.3	9.0	0.5 to 0.8	2.3
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

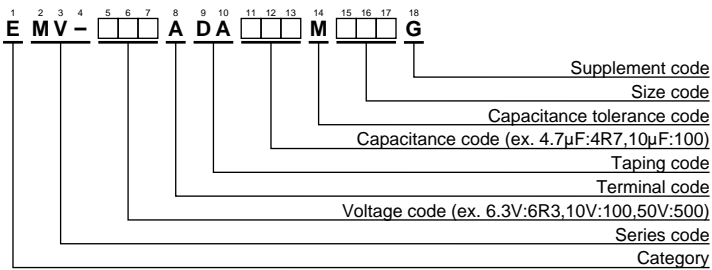
* : L=5.7 for D60, E60 and F60.

◆ MARKING

EX)6.3V100μF



◆ PART NUMBERING SYSTEM



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

◆STANDARD RATINGS

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	23	EMV-4R0ADA330MD55G	35	4.7	D55	0.12	15	EMV-350ADA4R7MD55G	
	47	D55	0.42	27	EMV-4R0ADA470MD55G		10	E55	0.12	25	EMV-350ADA100ME55G	
	100	E55	0.42	46	EMV-4R0ADA101ME55G		22	F55	0.12	40	EMV-350ADA220MF55G	
	220	F55	0.42	74	EMV-4R0ADA221MF55G		47	H63	0.14	105	EMV-350ADA470MH63G	
6.3	22	D55	0.24	23	EMV-6R3ADA220MD55G		100	HA0	0.14	175	EMV-350ADA101MHA0G	
	47	E55	0.24	38	EMV-6R3ADA470ME55G		220	JA0	0.14	265	EMV-350ADA221MJA0G	
	100	F55	0.24	60	EMV-6R3ADA101MF55G		50	1.0	D55	0.10	6.2	EMV-500ADA1R0MD55G
	330	H63	0.40	190	EMV-6R3ADA331MH63G			2.2	D55	0.10	10	EMV-500ADA2R2MD55G
	470	HA0	0.40	265	EMV-6R3ADA471MHA0G	3.3		D55	0.10	14	EMV-500ADA3R3MD55G	
1,000	JA0	0.40	400	EMV-6R3ADA102MJA0G	4.7	E55		0.10	19	EMV-500ADA4R7ME55G		
10	33	E55	0.20	35	EMV-100ADA330ME55G	10		F55	0.10	29	EMV-500ADA100MF55G	
	220	H63	0.30	175	EMV-100ADA221MH63G	33		H63	0.12	95	EMV-500ADA330MH63G	
16	10	D55	0.16	17	EMV-160ADA100MD55G	47		HA0	0.12	140	EMV-500ADA470MHA0G	
	22	E55	0.16	32	EMV-160ADA220ME55G	100	JA0	0.12	195	EMV-500ADA101MJA0G		
	47	F55	0.16	50	EMV-160ADA470MF55G	63	1.0	D60	0.12	7.0	EMV-630ADA1R0MD60G	
	220	HA0	0.26	215	EMV-160ADA221MHA0G		2.2	D60	0.12	10	EMV-630ADA2R2MD60G	
	330	HA0	0.26	270	EMV-160ADA331MHA0G		3.3	E60	0.12	13	EMV-630ADA3R3ME60G	
470	JA0	0.26	330	EMV-160ADA471MJA0G	10		HA0	0.12	46	EMV-630ADA100MHA0G		
25	33	F55	0.14	45	EMV-250ADA330MF55G		22	HA0	0.12	69	EMV-630ADA220MHA0G	
	100	H63	0.16	145	EMV-250ADA101MH63G		33	HA0	0.12	85	EMV-630ADA330MHA0G	
	330	JA0	0.16	305	EMV-250ADA331MJA0G		47	HA0	0.12	101	EMV-630ADA470MHA0G	