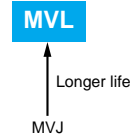


Alchip®-MVL Series

- Endurance : 105°C 3000 to 5000 hours
- Suitable for applications requiring long life such as continuously operating equipment, industrial applications, etc
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)
- Pb-free design

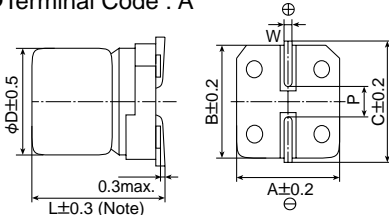


◆SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	-40 to +105°C	
Rated Voltage Range	6.3 to 50V _{dc}	
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)	
Leakage Current	I=0.03CV or 4μA, 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})	6.3V 10V 16V 25V 35V 50V
	Max. tanδ	0.28 0.24 0.20 0.16 0.13 0.12 (at 20°C, 120Hz)
Low Temperature Characteristics (Max. impedance Ratio)	Rated voltage (V _{dc})	6.3V 10V 16V 25V 35V 50V
	Z(-25°C)/Z(+20°C)	4 3 2 2 2 2
	Z(-40°C)/Z(+20°C)	10 7 5 3 3 3 (120Hz)
Endurance	After the capacitors are subjected to the rated DC voltage for 3000 hours (HA0 & JA0 sizes 5000 hours) at 105°C, the following specifications shall be satisfied when the capacitors are restored to 20°C.	
	Capacitance change	≤±30% of the initial measured value
	D.F. (tanδ)	≤300% of the initial specified value
	Leakage current	≤The initial specified value
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied.	
	Capacitance change	≤±30% of the initial measured value
	D.F. (tanδ)	≤300% of the initial specified value
	Leakage current	≤The initial specified value

◆DIMENSIONS [mm]

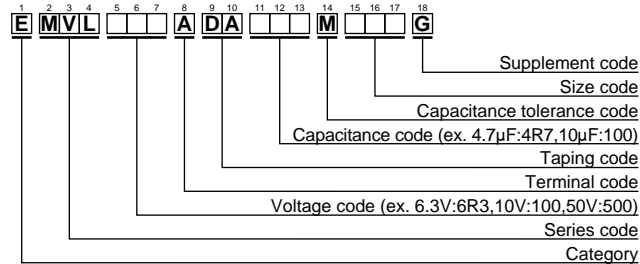
●Terminal Code : A



Note : L±0.5 for H63 to JA0

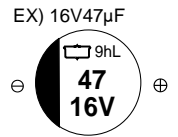
Size code	D	L	A	B	C	W	P
D60	4	5.7	4.3	4.3	5.1	0.5 to 0.8	1.0
E60	5	5.7	5.3	5.3	5.9	0.5 to 0.8	1.4
F60	6.3	5.7	6.6	6.6	7.2	0.5 to 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9
H63	8	6.3	8.3	8.3	9.0	0.5 to 0.8	2.3
HA0	8	10.0	8.3	8.3	9.0	0.7 to 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 to 1.1	4.5

◆PART NUMBERING SYSTEM



Please refer to "A guide to global code (surface mount type)"

◆MARKING



◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size code	tanδ	Rated ripple current (mArms/105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Size code	tanδ	Rated ripple current (mArms/105°C, 120Hz)	Part No.
6.3	22	D60	0.28	22	EMVL6R3ADA220MD60G	35	4.7	D60	0.13	15	EMVL350ADA4R7MD60G
	47	E60	0.28	36	EMVL6R3ADA470ME60G		10	E60	0.13	25	EMVL350ADA100ME60G
	100	F60	0.28	60	EMVL6R3ADA101MF60G		22	F60	0.13	42	EMVL350ADA220MF60G
	220	F80	0.28	101	EMVL6R3ADA221MF80G		33	F80	0.13	57	EMVL350ADA330MF80G
	330	HA0	0.28	160	EMVL6R3ADA331MHA0G		220	JA0	0.13	216	EMVL350ADA221MJA0G
	1000	JA0	0.28	313	EMVL6R3ADA102MJA0G		50	0.10	D60	0.12	1.0
10	33	E60	0.24	35	EMVL100ADA330ME60G	0.22		D60	0.12	2.6	EMVL500ADAR22MD60G
	220	HA0	0.24	141	EMVL100ADA221MHA0G	0.33		D60	0.12	3.2	EMVL500ADAR33MD60G
	10	D60	0.20	18	EMVL160ADA100MD60G	0.47		D60	0.12	3.8	EMVL500ADAR47MD60G
16	22	E60	0.20	30	EMVL160ADA220ME60G	1.0		D60	0.12	6.2	EMVL500ADA1R0MD60G
	47	F60	0.20	50	EMVL160ADA470MF60G	2.2		D60	0.12	11	EMVL500ADA2R2MD60G
	100	F80	0.20	81	EMVL160ADA101MF80G	3.3		D60	0.12	14	EMVL500ADA3R3MD60G
	470	JA0	0.20	254	EMVL160ADA471MJA0G	4.7		E60	0.12	19	EMVL500ADA4R7ME60G
	25	33	F60	0.16	48	EMVL250ADA330MF60G		10	F60	0.12	30
47		F80	0.16	63	EMVL250ADA470MF80G	22		F80	0.12	49	EMVL500ADA220MF80G
100		HA0	0.16	116	EMVL250ADA101MHA0G	33	HA0	0.12	77	EMVL500ADA330MHA0G	
330		JA0	0.16	238	EMVL250ADA331MJA0G	47	HA0	0.12	92	EMVL500ADA470MHA0G	
100		JA0	0.12	151	EMVL500ADA101MJA0G	100	JA0	0.12	151	EMVL500ADA101MJA0G	