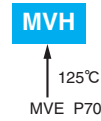


Alchip™-MVH Series

- Lower ESR, Higher ripple current
- Endurance : 1,000 to 5,000 hours at 125°C
- Suitable to fit for automotive equipment
- Solvent resistant type except 63 to 450V<sub>dc</sub> (see PRECAUTIONS AND GUIDELINES)
- Vibration resistant structure
- RoHS Compliant



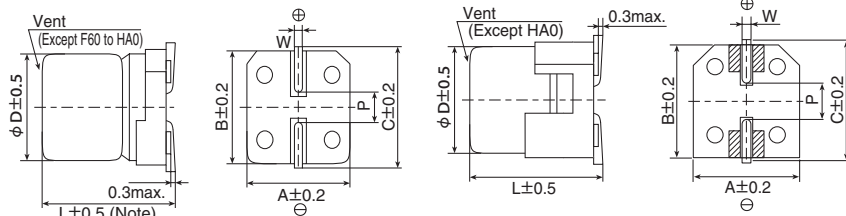
◆ SPECIFICATIONS

Items	Characteristics													
<b>Category</b>	-40 to +125°C													
<b>Temperature Range</b>	-40 to +125°C													
<b>Rated Voltage Range</b>	10 to 450V <sub>dc</sub>													
<b>Capacitance Tolerance</b>	±20% (M) (at 20°C, 120Hz)													
<b>Leakage Current</b>	Rated voltage (V <sub>dc</sub> )	10 to 100V <sub>dc</sub>						160 to 450V <sub>dc</sub>						
	F60 to JA0	I=0.01CV or 3μA, whichever is greater.						I=0.04CV+100						
	KE0 to MNO	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)														
<b>Dissipation Factor (tanδ)</b>	Rated voltage (V <sub>dc</sub> )	10V	16V	25V	35V	50V	63V	80V	100V	160 to 250V	400 & 450V			
	tanδ (Max.)	F60 to JA0	0.24	0.20	0.16	0.14	0.14	0.12	0.12	0.10	—	—		
		KE0 to MNO	0.22	0.18	0.16	0.14	0.12	0.14	—	0.10	0.20	0.24		
When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)														
<b>Low Temperature Characteristics (Max. Impedance Ratio)</b>	Rated voltage (V <sub>dc</sub> )	10V	16V	25V	35V	50V	63V	80V	100V	160 to 250V	400 & 450V			
	F60 to JA0	Z(-25°C)/Z(+20°C)	3	2	2	2	2	2	2	2	—	—		
		Z(-40°C)/Z(+20°C)	6	4	4	3	3	3	3	3	—	—		
	KE0 to MNO	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	—	2	3	6		
Z(-40°C)/Z(+20°C)		8	6	4	3	3	3	—	3	6	10	(at 120Hz)		
<b>Endurance</b>	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for the specified time at 125°C.													
	Time	F60 to H63 (10 to 100V <sub>dc</sub> ) : 1,000hours HA0 to JA0 (10 to 100V <sub>dc</sub> ) : 2,000hours KE0 to MNO (10 to 100V <sub>dc</sub> ) : 5,000hours KE0 to MNO (160 to 450V <sub>dc</sub> ) : 2,000hours												
	Capacitance change	≤ ±30% of the initial value												
	D.F. (tanδ)	≤ 300% of the initial specified value												
	Leakage current	≤ The initial specified value												
<b>Shelf Life</b>	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours (500 hours for 400 to 450V <sub>dc</sub> ) at 125°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.													
	Rated voltage (V <sub>dc</sub> )	10 to 50V <sub>dc</sub>						63 to 450V <sub>dc</sub>						
	Capacitance change	≤ ±30% of the initial value						≤ ±30% of the initial value						
	D.F. (tanδ)	≤ 300% of the initial specified value						≤ 300% of the initial specified value						
	Leakage current	≤ The initial specified value						≤ 500% of the initial specified value						

◆ DIMENSIONS [mm]

- Terminal Code : A
- Size code : F60 to MNO

- Terminal Code : G (Vibration resistant structure)
- Size code : HA0 to MNO

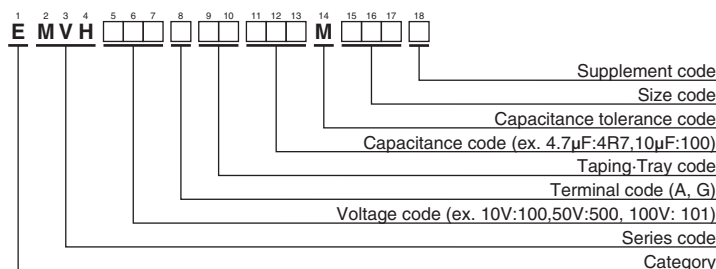


Note : L±0.3 for F60 and F80

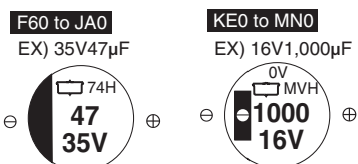
▨ : Dummy terminals

Size code	D	L	A	B	C	W	P
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
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



◆ MARKING



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

