

**Alchip® MVE Series**

- Rated voltage range : 6.3 to 450V, capacitance range : 0.47 to 6800μF
- Endurance : 1000 to 2000 hours at 105°C
- Case size range : φ4×5.2L to φ18×21.5L
- Solvent-proof type except 100 to 450V<sub>dc</sub> (see PRECAUTIONS AND GUIDELINES)
- Pb-free design

MVE

↑  
downsized  
size extended  
MVK



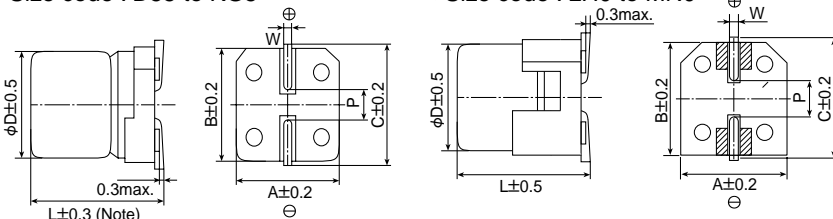
◆ **SPECIFICATIONS**

Items	Characteristics											
<b>Category Temperature Range</b>	-40 to +105°C											
<b>Rated Voltage Range</b>	6.3 to 450V <sub>dc</sub>											
<b>Capacitance Tolerance</b>	±20%(M) (20°C, 120Hz)											
<b>Leakage Current</b>	Rated voltage(V <sub>dc</sub> )	6.3 to 100V						160 to 450V				
	D55 to JA0	I=0.01CV or 3μA, whichever is greater (2 minutes)						—				
	KE0 to MN0	I=0.03CV or 4μA, whichever is greater (1 minute)						I=0.04CV+100μA (1minute)				
	Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (20°C)											
<b>Dissipation Factor (tanδ)</b>	See STANDARD RATINGS (20°C, 120Hz)											
<b>Low Temperature Characteristics (Max. Impedance Ratio)</b>	Rated voltage (V <sub>dc</sub> )	6.3V	10V	16V	25V	35V	50V	63V	100V	160 to 250V	400 to 450V	(120Hz)
		Z(-25°C)/Z(+20°C)		4	3	2	2	2	2	3	—	
	Z(-40°C)/Z(+20°C)		12	8	6	4	3	3	4	—	—	
	D55 to JA0	Z(-25°C)/Z(+20°C)		5	4	3	2	2	2	2	3	
Z(-40°C)/Z(+20°C)		10	8	6	4	3	3	3	6	10		
<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 period of time at 105°C.											
	Size code	D55 to F80					HA0 to MN0					
	Time	1000 hours					2000 hours					
	Capacitance change	≤±30% of the initial value					≤±20% of the initial value					
	D.F. (tanδ)	≤300% of the initial specified value					≤200% of the initial specified value					
	Leakage current	≤The initial specified value					≤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 1000 hours (500 hours for B55 to F80 size) at 105°C without voltage applied.											
	Size code	D55 to F80					HA0 to MN0					
	Capacitance change	≤±25% of the initial value					≤±20% of the initial value					
	D.F. (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 KG5

- Terminal Code : G
- Size code : LH0 to MN0

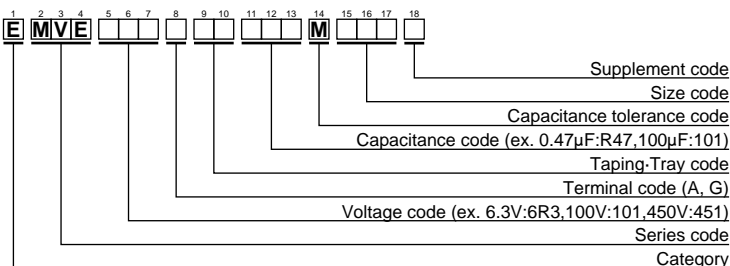


Note : L±0.5 for HA0 to KG5

▨ : Dummy terminals

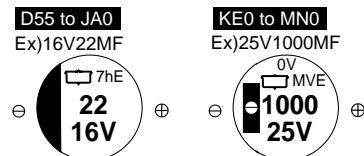
Size code	D	L	A	B	C	W	P
D55	4	5.2	4.3	4.3	5.1	0.5 to 0.8	1.0
E55	5	5.2	5.3	5.3	5.9	0.5 to 0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5 to 0.8	1.9
F60	6.3	5.7	6.6	6.6	7.2	0.5 to 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7 to 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 to 1.1	4.5
KE0	12.5	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
MN0	18	21.5	19.0	19.0	20.0	1.0 to 1.3	6.5

◆ **PART NUMBERING SYSTEM**



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

◆ **MARKING**





◆STANDARD RATINGS

□ is non solvent-proof.

Main table containing capacitor specifications: WV (Vdc), Cap (μF), Size code, tanδ, Rated ripple current (mArms/105°C, 120Hz), and Part No. for various series (6.3, 10, 16, 25, 35).

□ : Taping / Tray code