

**Alchip™ - MVA Series**

- φ4 through φ18 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<sub>dc</sub> (see PRECAUTIONS AND GUIDELINES)
- RoHS Compliant

MVA

↓  
Downsized  
Expanded case sizes  
↑  
MV

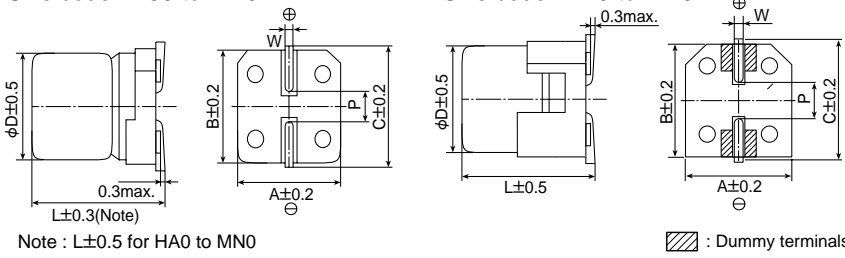


**◆SPECIFICATIONS**

Items	Characteristics												
Category Temperature Range	-40 to +85°C												
Rated Voltage Range	4 to 450V <sub>dc</sub>												
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)												
Leakage Current	Rated voltage (V <sub>dc</sub> )	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°C)												
Dissipation Factor (tanδ)	Rated voltage (V <sub>dc</sub> )	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°C, 120Hz)													
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V <sub>dc</sub> )	4V	6.3V	10V	16V	25V	35V	50V	63V	100V	160 to 250V	400 & 450V	
	D55 to JA0	Z(-25°C)/Z(+20°C)	7	4	3	2	2	2	2	2	3	—	—
		Z(-40°C)/Z(+20°C)	17	10	8	6	4	3	3	3	4	—	—
	KE0 to MN0	Z(-25°C)/Z(+20°C)	—	5	4	3	2	2	2	2	2	3	6
Z(-40°C)/Z(+20°C)		—	12	10	8	5	4	3	3	3	6	10	
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.												
	Size code	D55 to JA0			D55 to JA0			KE0 to MN0					
	Rated voltage (V <sub>dc</sub> )	4V & 6.3V			10 to 100V			6.3 to 450V					
	Capacitance change	≤±30% of the initial value			≤±20% of the initial value			≤±20% of the initial value					
	DF (tanδ)	≤200% of the initial specified value			≤200% of the initial specified value			≤200% of the initial specified value					
	Leakage current	≤The initial specified value			≤The initial specified value			≤The initial specified value					
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 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.												
	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			≤±20% of the initial value					
	DF (tanδ)	≤200% of the initial specified value			≤200% of the initial specified value			≤200% of the initial specified value					
	Leakage current	≤The initial specified value			≤The initial specified value			≤The initial specified value					

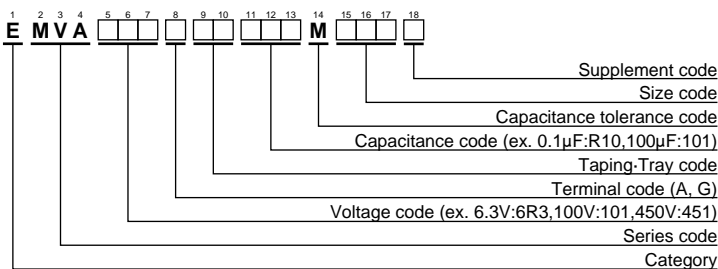
**◆DIMENSIONS [mm]**

- Terminal Code : A
- Size code : D55 to MN0
- Terminal Code : G
- Size code : LH0 to MN0



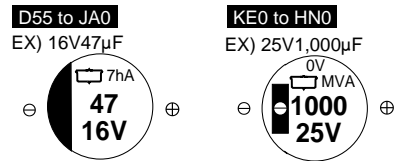
Size code	D	L	A	B	C	W	P
D55	4	5.2	4.3	4.3	5.1	0.5 to 0.8	1.0
E55	5	5.2	5.3	5.3	5.9	0.5 to 0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5 to 0.8	1.9
F60	6.3	5.7	6.6	6.6	7.2	0.5 to 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7 to 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 to 1.1	4.5
KE0	12.5	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 "Product code guide (surface mount type)"

**◆MARKING**





Alchip™-MVA Series

◆STANDARD RATINGS

□ is not solvent resistant.

Table with columns: WV (Vdc), Cap (μF), Size code, tanδ, Rated ripple current (mA rms/85°C, 120Hz), Part No. The table lists various capacitor models and their specifications across multiple rows.

□ : Enter the appropriate terminal code.
( ) : Second standard

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