

Alchip™-MKA Series

- Endurance : 1,000 to 2,000 hours at 105°C
- Rated voltage range : 6.3 to 50V
- Nominal capacitance range : 0.1 to 1,000μF
- Case sizes : φ4×5.5L to φ10×10.5L
- Solvent resistant type
- RoHS Compliant

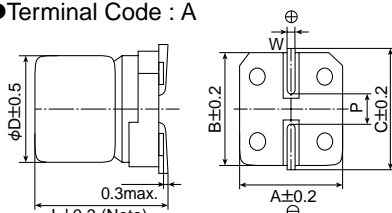


◆ SPECIFICATIONS

Items	Characteristics							
Category	-40 to +105°C							
Temperature Range								
Rated Voltage Range	6.3 to 50V _{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 minute)							
Dissipation Factor (tanδ)	Rated voltage(V _{dc})	6.3V	10V	16V	25V	35V	50V	
	tanδ(Max.)	D55 to F55	0.30	0.24	0.20	0.16	0.14	0.12
		F80/H63 to JA0	0.40	0.30	0.26	0.16	0.14	0.12
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage(V _{dc})	6.3	10	16	25	35	50	
	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	
	Z(-40°C)/Z(+20°C)	10	8	6	4	3	3	
Endurance	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.							
	Sizes	D55 to F55			F80, H63, HA0, JA0			
	Time	1,000 hours			2,000 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			

◆ DIMENSIONS [mm]

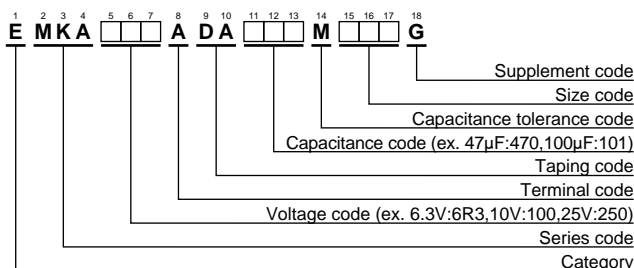
● Terminal Code : A



Note : L±0.5 for H63 to JA0

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
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



◆ MARKING

EX) 16V100μF



● Rated voltage code

Rated voltage (V _{dc})	6.3	10	16	25	35	50
Code	j	A	C	E	V	H

◆ STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size code	tanδ	Rated ripple current (mA _{RMS} /105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Size code	tanδ	Rated ripple current (mA _{RMS} /105°C, 120Hz)	Part No.
6.3	22	D55	0.30	21	EMKA6R3ADA220MD55G	35	10	E55	0.14	25	EMKA350ADA100ME55G
	47	E55	0.30	36	EMKA6R3ADA470ME55G		22	F55	0.14	40	EMKA350ADA220MF55G
	100	F55	0.30	56	EMKA6R3ADA101MF55G		33	F80	0.14	80	EMKA350ADA330MF80G
	330	HA0	0.40	290	EMKA6R3ADA331MHA0G		(33) (H63)	(0.14)	(80)	(80)	EMKA350ADA330MH63G
	1,000	JA0	0.40	410	EMKA6R3ADA102MJA0G		220	JA0	0.14	375	EMKA350ADA221MJA0G
10	33	E55	0.24	34	EMKA100ADA330ME55G	50	0.10	D55	0.12	1.3	EMKA500ADAR10MD55G
	100	F80	0.30	90	EMKA100ADA101MF80G		0.22	D55	0.12	2.6	EMKA500ADAR22MD55G
	(100) (H63)	(0.30)	(90)	EMKA100ADA101MH63G	0.33		D55	0.12	3.2	EMKA500ADAR33MD55G	
	220	HA0	0.30	180	EMKA100ADA221MHA0G		0.47	D55	0.12	3.8	EMKA500ADAR47MD55G
16	10	D55	0.20	16	EMKA160ADA100MD55G		1.0	D55	0.12	5.6	EMKA500ADA1R0MD55G
	22	E55	0.20	30	EMKA160ADA220ME55G		2.2	D55	0.12	10	EMKA500ADA2R2MD55G
	47	F55	0.20	48	EMKA160ADA470MF55G		3.3	D55	0.12	14	EMKA500ADA3R3MD55G
	470	JA0	0.26	460	EMKA160ADA471MJA0G		4.7	E55	0.12	19	EMKA500ADA4R7ME55G
25	33	F55	0.16	45	EMKA250ADA330MF55G		10	F55	0.12	29	EMKA500ADA100MF55G
	47	F80	0.16	80	EMKA250ADA470MF80G		22	F80	0.12	70	EMKA500ADA220MF80G
	(47) (H63)	(0.16)	(80)	EMKA250ADA470MH63G	(22) (H63)		(0.12)	(70)	(70)	EMKA500ADA220MH63G	
	100	HA0	0.16	180	EMKA250ADA101MHA0G		33	HA0	0.12	140	EMKA500ADA330MHA0G
	330	JA0	0.16	450	EMKA250ADA331MJA0G	47	HA0	0.12	170	EMKA500ADA470MHA0G	
35	4.7	D55	0.14	15	EMKA350ADA4R7MD55G	100	JA0	0.12	310	EMKA500ADA101MJA0G	

Note : Parenthesized capacitances are sub-standard parts.

Specifications in this bulletin are subject to change without notice.