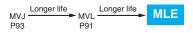
SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

- Endurance: 7,000 to 8,000 hours at 105°C
- Rated voltage range : 6.3 to 50V
- O Nominal capacitance range: 1.0 to 1,000µF
- Suitable for high reliability products
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- **©**RoHS Compliant

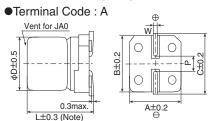




SPECIFICATIONS

Items	Characteristics							
Category Temperature Range	-25 to +105℃							
Rated Voltage Range	6.3 to 50V _{dc}							
Capacitance Tolerance	±20%(M)							(at 20℃,120Hz)
Leakage Current	I=0.03CV or 4μA, which	ever is	greate	•				
	Where, I: Max. leakage	curren	t (μΑ),	C : Nor	ninal ca	pacita	nce (µF)), V : Rated voltage (V) (at 20°C, after 2 minutes)
Dissipation Factor	Rated voltage (Vdc)	6.3V	10V	16V	25V	35V	50V	
(tanδ)	tanδ (Max.)	0.32	0.28	0.26	0.16	0.14	0.14	(at 20℃,120Hz)
Low Temperature	Rated voltage(Vdc)	6.3V	10V	16V	25V	35V	50V	
Characteristics	Z(-10°C)/Z(+20°C)	4	3	2	2	2	2	
(Max. Impedance Ratio)								(at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for specified time							
	at 105℃.							
	Time	D73 t	o F73	: 7,000	hours			
	Time	F90 t	o JA0 :	8,000	hours			
	Capacitance change	≦±30)% of th	ne initia	l value			
	D.F. $(tan\delta)$	≦300% of the initial specified value					ıe	
	Leakage current	≦The	≦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 105°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.							
	Capacitance change	≤±30% of the initial value ≤300% of the initial specified value						
	D.F. $(tan\delta)$						ie	
	Leakage current	≦The initial specified value						

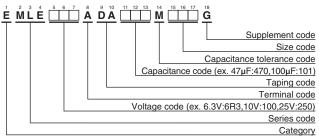
◆DIMENSIONS [mm]



Note: L±0.5 for HA0 and JA0

Size code	D	L	Α	В	С	W	Р
D73	4	7.0	4.3	4.3	5.1	0.5 to 0.8	1.0
E73	5	7.0	5.3	5.3	5.9	0.5 to 0.8	1.4
F73	6.3	7.0	6.6	6.6	7.2	0.5 to 0.8	1.9
F90	6.3	8.7	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

◆PART NUMBERING SYSTEM



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

◆MARKING

EX) 16V47µF



Rated voltage symbol

0	,						
Rated voltage (Vdc)	6.3	10	16	25	35	50	
Symbol	j	Α	С	Е	٧	Н	

Product specifications in this catalog are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications. 88

SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS



STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size code	Rated ripple current (mArms/105°C, 120Hz)			
	22	D73	22	EMLE6R3ADA220MD73G		
	47	E73	36	EMLE6R3ADA470ME73G		
6.3	100	F73	60	EMLE6R3ADA101MF73G		
0.3	220	F90	101	EMLE6R3ADA221MF90G		
	330	HA0	160	EMLE6R3ADA331MHA0G		
	1,000		313	EMLE6R3ADA102MJA0G		
10	33 E7	E73	35	EMLE100ADA330ME73G		
10	220	HA0	141	EMLE100ADA221MHA0G		
	10	D73	18	EMLE160ADA100MD73G		
	22	E73	30	EMLE160ADA220ME73G		
16	47	F73	50	EMLE160ADA470MF73G		
	100	F90	81	EMLE160ADA101MF90G		
	470	JA0	254	EMLE160ADA471MJA0G		
	33	F73	48	EMLE250ADA330MF73G		
25	47	F90	63	EMLE250ADA470MF90G		
	100	HA0	116	EMLE250ADA101MHA0G		

WV (Vdc)	Cap (μF)	Size code	Rated ripple current (mArms/105°C, 120Hz)			
	1.0	D73	6.2	EMLE350ADA1R0MD73G		
	2.2	D73	11	EMLE350ADA2R2MD73G		
	3.3	D73	14	EMLE350ADA3R3MD73G		
	4.7	D73	15	EMLE350ADA4R7MD73G		
	4.7	E73	19	EMLE350ADA4R7ME73G		
35	10	E73	25	EMLE350ADA100ME73G		
	10	F73	30	EMLE350ADA100MF73G		
	22	F73	42	EMLE350ADA220MF73G		
	22	F90	49	EMLE350ADA220MF90G		
	33	F90	57	EMLE350ADA330MF90G		
	220	JA0	216	EMLE350ADA221MJA0G		
50	33	HA0	77	EMLE500ADA330MHA0G		
	47	HA0	92	EMLE500ADA470MHA0G		
	100	JA0	151	EMLE500ADA101MJA0G		

PRATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Frequency(Hz) Capacitance(µF)	120	1k	10k	100k
1.0	1.00	1.50	1.75	1.80
2.2 to 10	1.00	1.30	1.40	1.50
22 to 1,000	1.00	1.05	1.08	1.08

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.