

## SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

# Alchip™-MHKSeries

- Endurance: 2,000 hours at 125°C
- Specified ESR after endurance
- For automobile modules and other high temperature applications
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.





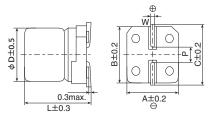
#### **SPECIFICATIONS**

Items	Characteristics						
Category Temperature Range	-40 to +125℃						
Rated Voltage Range	35V <sub>dc</sub>						
Capacitance Tolerance	±20%(M)			(at 20℃, 120Hz)			
Leakage Current	I=0.01CV						
	Where, I: Max. leakage of	current	( $\mu A$ ), C : Nominal capacitance ( $\mu F$	F), V : Rated voltage (V) (at 20℃ after 2 minute)			
Dissipation Factor	Rated voltage(Vdc)	35V					
(tan δ)	tan δ (Max.)	0.14		(at 20℃, 120Hz)			
Low Temperature	Rated voltage(V <sub>dc</sub> )	35V					
Characteristics	Z(-25°C)/Z(+20°C)	2					
(Max. impedance Ratio)	Z(-40°C)/Z(+20°C)	3		(at 120Hz)			
Endurance		tions shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours					
	at 125℃.						
	Capacitance change		30% of the initial value				
	D.F. (tan $\delta$ )	≦30	0% of the initial specified value				
	Leakage current	≦Th	ne initial specified value				
	ESR(Ω max./-40°C, 400kHz)	6.0					
Shelf life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours 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						
	Capacitance change	≤±30% of the initial value					
	D.F. (tan δ )	≦30	0% of the initial specified value				
	Leakage current	≦Th	ne initial specified value				

## **◆DIMENSIONS** [mm]

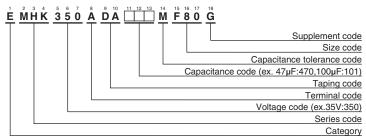
● Terminal Code : A

• Size code : F80



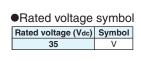
Size code	D	L	Α	В	С	W	Р
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9

## **◆PART NUMBERING SYSTEM**



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







## SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS



### **STANDARD RATINGS**

	WV (V <sub>dc</sub> )	Cap (μF)	Size code		SR k to 400kHz)	Rated ripple current (mArms/125°C, 100k to 400kHz)	Part No.	
	( <b>v</b> dc)			20℃	-40℃	(IIIAIIII5/125 C, 100k to 400kH2)		
ſ	35	47	F80	0.30	3.0	240	EMHK350ADA470MF80G	
		100	F80	0.30	3.0	240	EMHK350ADA101MF80G	

#### **◆RATED RIPPLE CURRENT MULTIPLIERS**

#### Frequency Multipliers

Capacitance(μF) Frequency(Hz)	120	1k	10k	100k
47 to 100	0.40	0.75	0.90	1.00

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.

CAT. No. E1001Q