

- ●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)

RoHS2 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 _{dc}								
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)								
Leakage Current	I=0.01CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minute)								
Dissipation Factor	Rated voltage(V _{dc})	35V							
(tan δ)	tanδ (Max.)	0.14				(at 20℃, 120Hz)			
Low Temperature	Rated voltage(V _{dc})	35V							
Characteristics	Z(-25°C)/Z(+20°C)	2							
(Max. impedance Ratio)	Z(-40°C)/Z(+20°C)	3	1			(at 120Hz)			
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 at 125°C.								
	Capacitance change	$\leq \pm 30\%$ of the initial value							
	D.F. $(\tan \delta)$ $\leq 300\%$ of the initial specified value			al specified value					
	Leakage current	≦Th	e initial specif	ied value					
	EOD(0,	F80		6.0					
	ESR(Ω max./-40°C, 400kHz)	HA0		4.5					
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 ini	tial value					
	D.F. (tan δ)	≦30	0% of the initi	al specified value					
	Leakage current	≦Th	e initial specif	ied value					

• Terminal Code : G(Vibration resistant structure)

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.

DIMENSIONS [mm]

- Terminal Code : A
- Size code : F80 to HA0
 - Size code : HA0 Œ Æ 0.3max W C¢ D±0.5 φ D±0.5 B±0.2 B±0.2 - 🗅 C±0. ے С \cap \cap L±0.5 A±0.2 0.3max. A±0.2 ⊖ Θ L±0.3 (Note) Note : L±0.5 for HA0 : Dummy terminals



PART NUMBERING SYSTEM



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

MARKING



Rated voltage symbol Rated voltage (Vdc) Symbol 35 V







♦STANDARD RATINGS

	WV (V _{dc})	Cap (μF)	Size code		SR)k to 400kHz)	Rated ripple current	Part No.
				20°C	-40°C	(mArms/125°C, 100k to 400kHz)	
		47	F80	0.30	3.0	240	EMHK350ARA470MF80G
	35	100	F80	0.30	3.0	240	EMHK350ARA101MF80G
		220	HA0	0.20	2.0	330	EMHK350 RA221MHA0G

♦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
220	0.50	0.85	0.94	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.

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