

Alchip™-MHS New! Series

- Downsizing, High capacitance
- Endurance: 5,000 hours at 125°C
- For high temperature and high reliability applications (Base station equipment, etc)
- High temperature reflow soldering (3 times)
- Solvent resistant type(see PRECAUTIONS AND GUIDELINES)
- Vibration resistant structure
- RoHS Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

SPECIFICATIONS

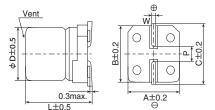
Items	Characteristics									
Category Temperature Range	-40 to +125℃									
Rated Voltage Range	16 to 100V _∞									
Capacitance Tolerance	±20%(M) (at 20℃, 120Hz)									
Leakage Current	I=0.03CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)									
Dissipation Factor	Rated voltage(Vdc)	16V	25V	35V	50V	63V	80V	100V		
$(\tan \delta)$	tan δ (Max.)	0.18	0.14	0.14	0.14	0.14	0.12	0.10		
	When nominal capacitance exce	eds 1,0	000 μ F,	add 0.0	2 to the	value a	bove for	r each 1	,000 μ F increase. (at 20℃, 120Hz)	
Low Temperature	Rated voltage(V _{dc})	16V	25V	35V	50V	63V	80V	100V		
Characteristics	Z(-25°C)/Z(+20°C)	3	2	2	2	2	2	2		
(Max. impedance Ratio)	Z(-40°C)/Z(+20°C)	6	4	3	3	3	3	3	(at 120Hz)	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 5,000 hours at 125°C.									
	Capacitance change	≦±30% of the initial value								
	D.F. (tan δ)	≦300% of the initial specified value								
	Leakage current	≦The	initial s	pecified						
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)	≦300% of the initial specified value								
	Leakage current	≦The initial specified value								

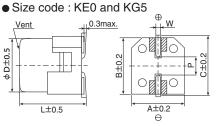
◆DIMENSIONS [mm]

Terminal Code : A

• Terminal Code : G(Vibration resistant structure)

Size code : KE0 and KG5

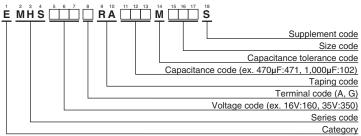




Size code	φD	L	Α	В	С	W	Р
KE0	12.5	13.5	13.0	13.0	13.7	1.0 to 1.3	4.2
KG5	12.5	16.0	13.0	13.0	13.7	1.0 to 1.3	4.2

: Dummy terminals

◆PART NUMBERING SYSTEM



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

◆MARKING





SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS



STANDARD RATINGS

wv	Cap (µF)	Size code	ESR (Ω ma	ax./100kHz)	Rated ripple current	Part No.	
(V _{dc})			20℃	−40°C	(mArms/125°C, 100kHz)		
16	1,500	KE0	0.087	1.1	1,060	EMHS160□RA152MKE0S	
16	2,000	KG5	0.070	0.84	1,160	EMHS160□RA202MKG5S	
25	1,000	KE0	0.087	1.1	1,060	EMHS250□RA102MKE0S	
25	1,300	KG5	0.070	0.84	1,160	EMHS250□RA132MKG5S	
35	680	KE0	0.087	1.1	1,060	EMHS350□RA681MKE0S	
35	820	KG5	0.070	0.84	1,160	EMHS350□RA821MKG5S	
50	360	KE0	0.16	2.0	880	EMHS500□RA361MKE0S	
50	470	KG5	0.12	1.5	970	EMHS500□RA471MKG5S	
63	240	KE0	0.17	2.5	920	EMHS630□RA241MKE0S	
03	330	KG5	0.13	1.8	1,030	EMHS630□RA331MKG5S	
80	180	KE0	0.17	2.5	920	EMHS800□RA181MKE0S	
80	240	KG5	0.13	1.8	1,030	EMHS800□RA241MKG5S	
100	110	KE0	0.17	2.5	920	EMHS101□RA111MKE0S	
100	150	KG5	0.13	1.8	1,030	EMHS101□RA151MKG5S	

 $[\]square$: Enter the appropriate terminal code.

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Capacitance(μF) Frequency(Hz)	120	1k	10k	100k
110 to 180	0.40	0.75	0.90	1.00
240 to 470	0.50	0.85	0.94	1.00
680 to 2,000	0.60	0.87	0.95	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.