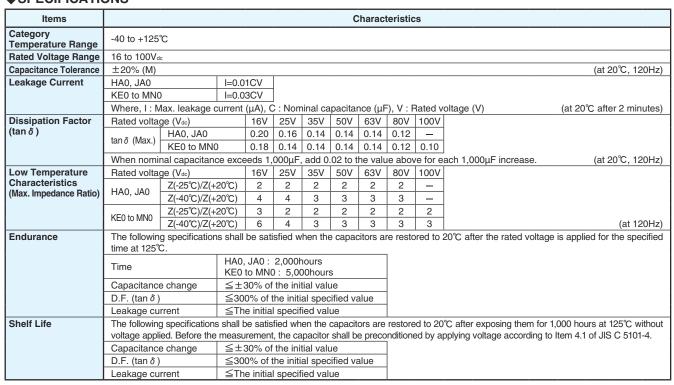


Alchip™-MHS Upgrade! Series

- Downsizing, High capacitance
- Endurance: 2,000 to 5,000 hours at 125°C
- For high temperature and high reliability applications (Base station equipment, etc)
- High temperature reflow soldering
- Solvent resistant type(see PRECAUTIONS AND GUIDELINES)
- Vibration resistant structure
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

♦SPECIFICATIONS



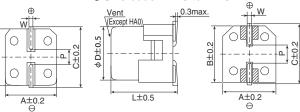
◆DIMENSIONS [mm]

Terminal Code : A

Terminal Code : G(Vibration resistant structure)
 Size code : HA0 to MN0

Size code : HA0 to MN0

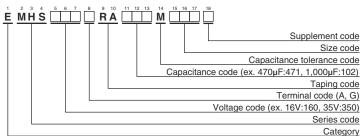
0.3max.



Size code	φD	L	Α	В	С	W	Р
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
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
LH0	16	16.5	17.0	17.0	18.0	1.0 to 1.3	6.5
LN0	16	21.5	17.0	17.0	18.0	1.0 to 1.3	6.5
MH0	18	16.5	19.0	19.0	20.0	1.0 to 1.3	6.5
MN0	18	21.5	19.0	19.0	20.0	1.0 to 1.3	6.5

: Dummy terminals

◆PART NUMBERING SYSTEM



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

◆MARKING



•Rated voltage symbol (HA0, JA0)

Rated voltage (Vdc)	16	25	35	50	63	80
Symbol	С	Е	V	Н	J	K





STANDARD RATINGS

wv	Сар	Size code	ESR (Ω max./100kHz)		Rated ripple current	B. J.N.	
(V _{dc})	(μ F)		20℃	-40°C	(mArms/125℃, 100kHz)	Part No.	
	680	HA0	0.19	2.6	620	EMHS160□RA681MHA0G	
	1,000	JA0	0.13	1.7	780	EMHS160□RA102MJA0G	
	1,500	KE0	0.087	1.1	1,060	EMHS160□RA152MKE0S	
16	2,000	KG5	0.070	0.84	1,160	EMHS160□RA202MKG5S	
.0	2,700	LH0	0.057	0.59	1,900	EMHS160□RA272MLH0S	
	3,600	MH0	0.055	0.44	2,000	EMHS160□RA362MMH0S	
	4,700	LN0	0.037	0.39	2,520	EMHS160 RA472MLN0S	
	6,200	MN0	0.036	0.28	2,570	EMHS160□RA622MMN0S	
	470	HA0	0.19	2.6	620	EMHS250 RA471MHA0G	
	680	JA0	0.13	1.7	780	EMHS250 RA681MJA0G	
	1,000	KE0	0.087	1.1	1,060	EMHS250 RA102MKE0S	
25	1,300	KG5	0.070	0.84	1,160	EMHS250 RA132MKG5S	
	1,800	LH0	0.057	0.59	1,900	EMHS250 RA182MLH0S	
	2,400	MH0	0.055	0.44	2,000	EMHS250 RA242MMH0S	
	3,300 4,300	LN0 MN0	0.037 0.036	0.39 0.28	2,520 2,570	EMHS250 RA332MLN0S EMHS250 RA432MMN0S	
	220	HA0	0.036	2.6	620	EMHS350 RA221MHA0G	
	270	HA0	0.19	2.6	620	EMHS350 RA271MHA0G	
	470	JA0	0.19	1.7	780	EMHS350 RA471MJA0G	
	680	KE0	0.087	1.1	1,060	EMHS350 RA681MKE0S	
35	820	KG5	0.070	0.84	1,160	EMHS350 RA821MKG5S	
33	1,200	LH0	0.057	0.59	1,900	EMHS350 RA122MLH0S	
	1,500	MH0	0.055	0.44	2,000	EMHS350 RA152MMH0S	
	2,000	LNO	0.037	0.39	2,520	EMHS350 RA202MLN0S	
	2,400	MNO	0.036	0.28	2,570	EMHS350 RA242MMN0S	
	100	HA0	0.65	8.1	440	EMHS500 RA101MHA0G	
	150	JA0	0.45	4.6	600	EMHS500 RA151MJA0G	
	180	JA0	0.45	4.6	600	EMHS500 RA181MJA0G	
	360	KE0	0.16	2.0	880	EMHS500 RA361MKE0S	
50	470	KG5	0.12	1.5	970	EMHS500 RA471MKG5S	
	560	LH0	0.088	0.94	1,640	EMHS500□RA561MLH0S	
	750	MH0	0.085	0.78	1,720	EMHS500 RA751MMH0S	
	1,000	LN0	0.056	0.61	2,230	EMHS500□RA102MLN0S	
	1,300	MNO	0.053	0.45	2,300	EMHS500 RA132MMN0S	
	68	HA0	0.65	8.1	440	EMHS630□RA680MHA0G	
	82	HA0	0.65	8.1	440	EMHS630□RA820MHA0G	
	100	JA0	0.45	4.6	600	EMHS630□RA101MJA0G	
	120	JA0	0.45	4.6	600	EMHS630□RA121MJA0G	
63	240	KE0	0.17	2.5	920	EMHS630 RA241MKE0S	
03	330	KG5	0.13	1.8	1,030	EMHS630□RA331MKG5S	
	430	LH0	0.098	1.3	1,640	EMHS630□RA431MLH0S	
	560	MH0	0.091	0.98	1,720	EMHS630□RA561MMH0S	
	680	LN0	0.063	0.80	2,230	EMHS630□RA681MLN0S	
	910	MN0	0.059	0.59	2,300	EMHS630□RA911MMN0S	
	47	HA0	0.65	8.1	440	EMHS800□RA470MHA0G	
	68	JA0	0.45	4.6	600	EMHS800 RA680MJA0G	
80	82	JA0	0.45	4.6	600	EMHS800□RA820MJA0G	
	180	KE0	0.17	2.5	920	EMHS800 RA181MKE0S	
	240	KG5	0.13	1.8	1,030	EMHS800 RA241MKG5S	
	270	LH0	0.098	1.3	1,640	EMHS800 RA271MLH0S	
	360	MH0	0.091	0.98	1,720	EMHS800 RA361MMH0S	
	430	LN0	0.063	0.80	2,230	EMHS800 RA431MLN0S	
	560	MN0	0.059	0.59	2,300	EMHS800 RA561MMN0S	
	110	KE0	0.17	2.5	920	EMHS101 RA111MKE0S	
	150	KG5	0.13	1.8	1,030	EMHS101 RA151MKG5S	
100	160	LH0	0.098	1.3	1,640	EMHS101 RA161MLH0S	
	200	MH0	0.091	0.98	1,720	EMHS101 RA201MMH0S	
	240	LNO	0.063	0.80	2,230	EMHS101 RA241MLN0S	
	330	MN0	0.059	0.59	2,300	EMHS101□RA331MMN0S	

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

◆RATED RIPPLE CURRENT MULTIPLIERS

• Frequency Multipliers

Size code	Capacitance(µF) Frequency(Hz)	120	1k	10k	100k
	47 to 180	0.40	0.75	0.90	1.00
HA0, JA0	220 to 470	0.50	0.85	0.94	1.00
	680 to 1,000	0.60	0.87	0.95	1.00
KE0 to MN0	110 to 200	0.40	0.75	0.90	1.00
	220 to 620	0.50	0.85	0.94	1.00
	680 to 2,000	0.60	0.87	0.95	1.00
	2,400 to 4,300	0.75	0.90	0.95	1.00
	4,700 to 6,200	0.85	0.95	0.98	1.00

The deterioration of aluminum electrolytic capacitors accelerates their life due to the internal heating produced by ripple current. For details, refer to Section "5-3 Ripple Current Effect on Lifetime" in the catalog, Technical Note.



- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
- The products listed in this catalog are designed and manufactured for general electronics equipment use and are not intended for use in applications that can adversely affect human life; where the malfunction of equipment may cause damage to life or property. In addition, our products are not intended to be used in specific applications that may cause a major social impact. Please consult with us in advance of usage of our products in the following listed applications. ① Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. ③ Medical equipment ④ Transport equipment (automobiles, trains, ships, etc.) ⑤ Transportation control equipment ⑥ Disaster prevention / crime prevention equipment ⑦ Highly publicized information processing equipment ⑧ Submarine equipment ⑨ Other applications that are not considered general-purpose applications.
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 The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
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In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

Part Numbering System
Part Numbering System (Appendix)
Standardization
Available Items by Manufacturing Locations
Environmental Measures
Technical Note
Precautions and Guidelines
Recommended Soldering Conditions
Taping, Lead-preforming and Packaging
Available Terminals for Snap-in and Screw Mount Type