



Alchip™-MHB Series

◆STANDARD RATINGS

WV (V <sub>dc</sub> )	Cap (μF)	Size code	ESR(Initial) (Ω max./100k to 400kHz)		ESR(End of life) (Ω max.)			Rated ripple current (mArms/125°C, 100k to 400kHz)	Part No.
			20°C	-40°C	100kHz		400kHz		
					20°C	-40°C			
10	330	HA0	0.3	3.0	-	-	6.0	240	EMHB100 □ RA331MHA0G
	470	JA0	0.2	2.0	-	-	4.5	330	EMHB100 □ RA471MJA0G
16	100	HA0	0.3	3.0	-	-	6.0	240	EMHB160 □ RA101MHA0G
	220	HA0	0.3	3.0	-	-	6.0	240	EMHB160 □ RA221MHA0G
25	100	HA0	0.3	3.0	-	-	6.0	240	EMHB250 □ RA101MHA0G
	220	HA0	0.3	3.0	-	-	6.0	240	EMHB250 □ RA221MHA0G
	330	JA0	0.2	2.0	-	-	4.5	330	EMHB250 □ RA331MJA0G
	820	KE0	0.060	0.30	0.30	3.7	-	1,320	EMHB250 □ RA821MKE0S
	1,100	KG5	0.056	0.28	0.28	3.4	-	1,470	EMHB250 □ RA112MKG5S
	(1,500)	(KN0)	(0.044)	(0.22)	(0.18)	(2.2)	-	(1,620)	(EMHB250 □ TR152MKN0S)
	1,600	LH0	0.047	0.24	0.24	2.9	-	1,820	EMHB250 □ RA162MLH0S
	2,200	MH0	0.045	0.23	0.23	2.8	-	2,000	EMHB250 □ RA222MMH0S
	2,700	LN0	0.034	0.17	0.10	1.3	-	2,280	EMHB250 □ RA272MLN0S
3,300	MN0	0.032	0.16	0.090	0.60	-	2,490	EMHB250 □ RA332MMN0S	
35	47	HA0	0.3	3.0	-	-	6.0	240	EMHB350 □ RA470MHA0G
	100	HA0	0.3	3.0	-	-	6.0	240	EMHB350 □ RA101MHA0G
	100	JA0	0.2	2.0	-	-	4.5	330	EMHB350 □ RA101MJA0G
	220	JA0	0.2	2.0	-	-	4.5	330	EMHB350 □ RA221MJA0G
	560	KE0	0.060	0.30	0.30	3.7	-	1,320	EMHB350 □ RA561MKE0S
	680	KG5	0.056	0.28	0.28	3.4	-	1,470	EMHB350 □ RA681MKG5S
	(910)	(KN0)	(0.044)	(0.22)	(0.18)	(2.2)	-	(1,620)	(EMHB350 □ TR911MKN0S)
	1,000	LH0	0.047	0.24	0.24	2.9	-	1,820	EMHB350 □ RA102MLH0S
	1,300	MH0	0.045	0.23	0.23	2.8	-	2,000	EMHB350 □ RA132MMH0S
1,600	LN0	0.034	0.17	0.10	1.3	-	2,280	EMHB350 □ RA162MLN0S	
2,200	MN0	0.032	0.16	0.090	0.60	-	2,490	EMHB350 □ RA222MMN0S	
50	270	KE0	0.11	0.55	0.55	6.6	-	980	EMHB500 □ RA271MKE0S
	360	KG5	0.10	0.50	0.50	6.0	-	1,090	EMHB500 □ RA361MKG5S
	(470)	(KN0)	(0.076)	(0.38)	(0.38)	(4.6)	-	(1,200)	(EMHB500 □ TR471MKN0S)
	510	LH0	0.087	0.44	0.44	5.2	-	1,320	EMHB500 □ RA511MLH0S
	680	MH0	0.087	0.44	0.44	5.2	-	1,420	EMHB500 □ RA681MMH0S
	820	LN0	0.050	0.25	0.25	3.0	-	2,040	EMHB500 □ RA821MLN0S
1,100	MN0	0.050	0.25	0.25	3.0	-	2,240	EMHB500 □ RA112MMN0S	
63	200	KE0	0.22	1.54	0.88	14	-	540	EMHB630 □ RA201MKE0S
	270	KG5	0.17	1.19	0.68	11	-	650	EMHB630 □ RA271MKG5S
	(330)	(KN0)	(0.13)	(0.94)	(0.53)	(8.5)	-	(830)	(EMHB630 □ TR331MKN0S)
	360	LH0	0.15	1.05	0.60	9.6	-	780	EMHB630 □ RA361MLH0S
	470	MH0	0.12	0.84	0.48	7.7	-	940	EMHB630 □ RA471MMH0S
	560	LN0	0.085	0.58	0.19	3.0	-	1,790	EMHB630 □ RA561MLN0S
750	MN0	0.070	0.49	0.19	3.0	-	1,910	EMHB630 □ RA751MMN0S	
80	130	KE0	0.22	1.54	0.88	14	-	540	EMHB800 □ RA131MKE0S
	160	KG5	0.17	1.19	0.68	11	-	650	EMHB800 □ RA161MKG5S
	(220)	(KN0)	(0.13)	(0.94)	(0.53)	(8.5)	-	(830)	(EMHB800 □ TR221MKN0S)
	240	LH0	0.15	1.05	0.60	9.6	-	780	EMHB800 □ RA241MLH0S
	330	MH0	0.12	0.84	0.48	7.7	-	940	EMHB800 □ RA331MMH0S
	390	LN0	0.085	0.58	0.19	3.0	-	1,790	EMHB800 □ RA391MLN0S
510	MN0	0.070	0.49	0.19	3.0	-	1,910	EMHB800 □ RA511MMN0S	
100	75	KE0	0.28	2.24	1.1	22	-	480	EMHB101 □ RA750MKE0S
	100	KG5	0.21	1.68	0.84	17	-	580	EMHB101 □ RA101MKG5S
	(130)	(KN0)	(0.17)	(1.32)	(0.66)	(13)	-	(740)	(EMHB101 □ TR131MKN0S)
	130	LH0	0.18	1.44	0.72	14	-	720	EMHB101 □ RA131MLH0S
	180	MH0	0.15	1.20	0.60	12	-	840	EMHB101 □ RA181MMH0S
	220	LN0	0.11	0.88	0.25	3.9	-	1,580	EMHB101 □ RA221MLN0S
300	MN0	0.091	0.73	0.22	3.9	-	1,690	EMHB101 □ RA301MMN0S	

□ : Enter the appropriate terminal code.

( ) : Second standard

◆RATED RIPPLE CURRENT MULTIPLIERS

● Frequency Multipliers

Size code	Capacitance(μF)	Frequency(Hz)			
		120	1k	10k	100k
HA0 to JA0	47 to 470	0.93	0.97	1.00	1.00
	75 to 200	0.40	0.75	0.90	1.00
KE0 to MN0	220 to 560	0.50	0.85	0.94	1.00
	680 to 1,600	0.60	0.87	0.95	1.00
	2,200 to 3,300	0.75	0.90	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.