

SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

Low impedance, 105°C

MVY Series

100 to 5,000 hours at 105°C

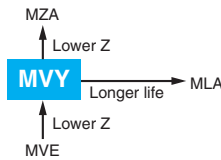
Application, especially DC-DC converters

Capacitor type except 80 & 100V_{dc} (see PRECAUTIONS AND GUIDELINES)

Mounting structure

Mounting

Compliance: Please contact Chemi-Con for more details, test data, information.



PRECAUTIONS

Characteristics	
Temperature range	-55 to +105°C (6.3 to 63V _{dc}) -40 to +105°C (80 & 100V _{dc})
Voltage range	6.3 to 100V _{dc}
Capacitance tolerance	±20% (M) (at 20°C, 120Hz)
Leakage current	I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)
D.F. (tan δ) (Max.)	Rated voltage (V _{dc})
	6.3V 10V 16V 25V 35V 50V 63V 80V 100V
	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)
Z(-40°C)/Z(+20°C)	Rated voltage (V _{dc})
	6.3V 10V 16V 25V 35V 50V 63V 80V 100V
(at 120Hz)	
The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for specified time at 105°C.	
Time	D55 to F80 : 1,000 hours HA0 & JA0 : 2,000 hours KE0 to MN0 : 5,000 hours
Rated voltage	6.3V _{dc} (D55 to JA0) 6.3 to 100V _{dc}
Capacitance change	≤ ±30% of the initial value ≤ ±20% of the initial value
D.F. (tan δ)	≤ 300% of the initial specified value ≤ 200% of the initial specified value
Leakage current	≤ The initial specified value ≤ The initial specified value
The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°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.	
Rated voltage	6.3V _{dc} (D55 to JA0) 6.3 to 100V _{dc}
Capacitance change	≤ ±30% of the initial value ≤ ±20% of the initial value
D.F. (tan δ)	≤ 300% of the initial specified value ≤ 200% of the initial specified value
Leakage current	≤ The initial specified value ≤ The initial specified value

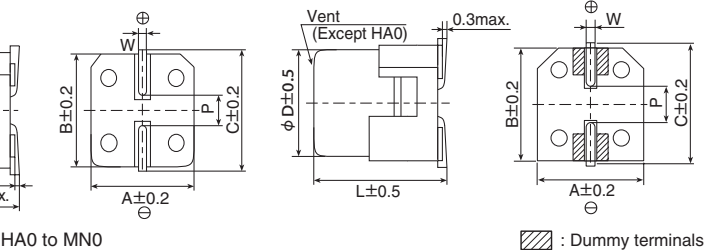
Dimensions [mm]

Terminal code : A

Size code : D55 to MN0

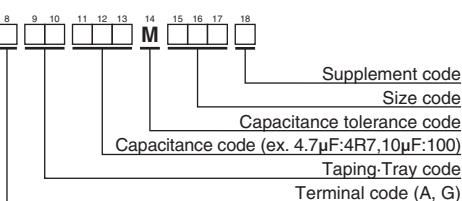
● Terminal Code : G(Vibration resistant structure)

● Size code : HA0 to MN0



Size code	D	L	A	B	C	W	P
D55	4	5.2	4.3	4.3	5.1	0.5 to 0.8	1.0
E55	5	5.2	5.3	5.3	5.9	0.5 to 0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5 to 0.8	1.9
F61	6.3	5.8	6.6	6.6	7.2	0.5 to 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9
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

MARKING SYSTEM



MARKING

D55 to JA0
EX) 6.3V100μF

KE0 to MN0
EX) 16V1,000μF



SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

Low impedance, 105°C



RATINGS

□ is not solvent resistant (80/100V_{dc}).

Size code	Impedance (Ω max./20°C, 100kHz)	Rated ripple current (mA rms/105°C, 100kHz)	Part No.	WV (V _{dc})	Cap (μF)	Size code	Impedance (Ω max./20°C, 100kHz)	Rated ripple current (mA rms/105°C, 100kHz)	Part No.
55	3.0	60	EMVY6R3ARA220MD55G	25	330	HA0	0.30	450	EMVY250□RA331MHA0G
55	1.8	95	EMVY6R3ARA330ME55G		470	JA0	0.15	670	EMVY250□RA471MJA0G
55	1.8	95	EMVY6R3ARA470ME55G		1,000	LH0	0.054	1,260	EMVY250□RA102MLH0S
55	1.0	140	EMVY6R3ARA101MF55G		1,000	MH0	0.054	1,350	EMVY250□RA102MMH0S
55	1.0	140	EMVY6R3ARA221MF55G		2,200	LN0	0.038	1,630	EMVY250□RA222MLN0S
80	0.34	280	EMVY6R3ARA331MF80G		2,200	MN0	0.038	1,750	EMVY250□RA222MMN0S
IA0	0.30	450	EMVY6R3□RA471MHA0G		3,300	MN0	0.038	1,750	EMVY250□RA332MMN0S
IA0	0.30	450	EMVY6R3□RA681MHA0G		35	4.7	D55	3.0	60
IA0	0.30	450	EMVY6R3□RA102MHA0G	10		E55	1.8	95	EMVY350ARA100ME55G
IA0	0.15	670	EMVY6R3□RA152MJA0G	22		F55	1.0	140	EMVY350ARA220MF55G
IE0	0.070	820	EMVY6R3□RA222MKE0S	33		F55	1.0	140	EMVY350ARA330MF55G
IH0	0.054	1,260	EMVY6R3□RA222MLH0S	47		F55	1.0	140	EMVY350ARA470MF55G
IG5	0.060	950	EMVY6R3□RA332MKG5S	47		F61	1.0	140	EMVY350ARA470MF61G
IH0	0.054	1,350	EMVY6R3□RA332MMH0S	68		F80	0.34	280	EMVY350ARA680MF80G
IN0	0.038	1,630	EMVY6R3□RA472MLN0S	100		HA0	0.30	450	EMVY350□RA101MHA0G
IH0	0.054	1,350	EMVY6R3□RA472MMH0S	220		HA0	0.30	450	EMVY350□RA221MHA0G
IN0	0.038	1,630	EMVY6R3□RA682MLN0S	330		JA0	0.15	670	EMVY350□RA331MJA0G
IN0	0.038	1,750	EMVY6R3□RA682MMN0S	470		KE0	0.070	820	EMVY350□RA471MKE0S
IN0	0.038	1,750	EMVY6R3□RA822MMN0S	470		LH0	0.054	1,260	EMVY350□RA471MLH0S
55	1.8	95	EMVY100ARA220ME55G	1,000		LH0	0.054	1,260	EMVY350□RA102MLH0S
55	1.8	95	EMVY100ARA330ME55G	1,000		MH0	0.054	1,350	EMVY350□RA102MMH0S
55	1.0	140	EMVY100ARA470MF55G	2,200		MN0	0.038	1,750	EMVY350□RA222MMN0S
55	1.0	140	EMVY100ARA101MF55G	50		1.0	D55	5.0	30
80	0.34	280	EMVY100ARA221MF80G		2.2	D55	5.0	30	EMVY500ARA2R2MD55G
IA0	0.30	450	EMVY100□RA331MHA0G		3.3	D55	5.0	30	EMVY500ARA3R3MD55G
IA0	0.30	450	EMVY100□RA471MHA0G		4.7	E55	3.0	50	EMVY500ARA4R7ME55G
IA0	0.15	670	EMVY100□RA681MJA0G		10	F55	2.0	70	EMVY500ARA100MF55G
IA0	0.15	670	EMVY100□RA102MJA0G		22	F55	2.0	70	EMVY500ARA220MF55G
IG5	0.060	950	EMVY100□RA222MKG5S		33	F80	0.60	170	EMVY500ARA330MF80G
IH0	0.054	1,260	EMVY100□RA222MLH0S		47	F80	0.60	170	EMVY500ARA470MF80G
IH0	0.054	1,260	EMVY100□RA332MLH0S		68	HA0	0.60	300	EMVY500□RA680MHA0G
IH0	0.054	1,350	EMVY100□RA332MMH0S		100	HA0	0.60	300	EMVY500□RA101MHA0G
IN0	0.038	1,630	EMVY100□RA472MLN0S		220	JA0	0.30	500	EMVY500□RA221MJA0G
IN0	0.038	1,750	EMVY100□RA472MMN0S		330	KE0	0.11	650	EMVY500□RA331MKE0S
IN0	0.038	1,750	EMVY100□RA682MMN0S		330	LH0	0.087	900	EMVY500□RA331MLH0S
55	3.0	60	EMVY160ARA100MD55G		470	LH0	0.087	900	EMVY500□RA471MLH0S
55	1.8	95	EMVY160ARA220ME55G		470	MH0	0.087	1,060	EMVY500□RA471MMH0S
55	1.0	140	EMVY160ARA330MF55G		1,000	MN0	0.050	1,520	EMVY500□RA102MMN0S
55	1.0	140	EMVY160ARA470MF55G	63	68	KE0	0.19	500	EMVY630□RA680MKE0S
55	1.0	140	EMVY160ARA101MF55G		100	KE0	0.19	500	EMVY630□RA101MKE0S
80	0.34	280	EMVY160ARA221MF80G		220	KE0	0.19	500	EMVY630□RA221MKE0S
IA0	0.30	450	EMVY160□RA331MHA0G		220	LH0	0.12	845	EMVY630□RA221MLH0S
IA0	0.30	450	EMVY160□RA471MHA0G		330	LH0	0.12	845	EMVY630□RA331MLH0S
IA0	0.15	670	EMVY160□RA681MJA0G		330	MH0	0.12	905	EMVY630□RA331MMH0S
IE0	0.070	820	EMVY160□RA102MKE0S		470	LN0	0.085	1,100	EMVY630□RA471MLN0S
IH0	0.054	1,260	EMVY160□RA102MLH0S		470	MH0	0.12	905	EMVY630□RA471MMH0S
IH0	0.054	1,260	EMVY160□RA222MLH0S	80	100	KE0	0.33	450	EMVY800□RA101MKE0S
IH0	0.054	1,350	EMVY160□RA222MMH0S		220	KG5	0.26	550	EMVY800□RA221MKG5S
IN0	0.038	1,630	EMVY160□RA332MLN0S		330	LN0	0.16	900	EMVY800□RA331MLN0S
IH0	0.054	1,350	EMVY160□RA332MMH0S		330	MH0	0.24	700	EMVY800□RA331MMH0S
IN0	0.038	1,750	EMVY160□RA472MMN0S	470	MN0	0.16	950	EMVY800□RA471MMN0S	
55	1.8	95	EMVY250ARA100ME55G	100	47	KE0	0.33	450	EMVY101□RA470MKE0S
55	1.0	140	EMVY250ARA220MF55G		68	KE0	0.33	450	EMVY101□RA680MKE0S
55	1.0	140	EMVY250ARA330MF55G		100	KE0	0.33	450	EMVY101□RA101MKE0S
55	1.0	140	EMVY250ARA470MF55G		100	LH0	0.24	650	EMVY101□RA101MLH0S
80	0.34	280	EMVY250ARA101MF80G		220	LN0	0.16	900	EMVY101□RA221MLN0S
IA0	0.30	450	EMVY250□RA221MHA0G		220	MH0	0.24	700	EMVY101□RA221MMH0S
IA0	0.30	450	EMVY250□RA331MHA0G	330	MN0	0.16	950	EMVY101□RA331MMN0S	

□ appropriate terminal code.

RIPPLE CURRENT MULTIPLIERS

Multipliers

Cap (μF)	Frequency (Hz)	120	1k	10k	100k
0.0 to 4.7		0.35	0.70	0.90	1.00
10 to 100		0.40	0.75	0.90	1.00
20 to 470		0.50	0.85	0.94	1.00
100 to 1,500		0.60	0.87	0.95	1.00

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