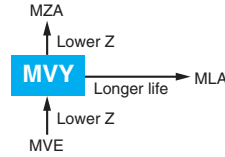


Chemip™-MVY Series

Life expectancy : 1,000 to 5,000 hours at 105°C
 Low impedance
 Suitable for digital equipment, especially DC-DC converters
 Vibration resistant type except 80 & 100V_{dc} (see PRECAUTIONS AND GUIDELINES)
 Vibration resistant structure
 RoHS Compliant
 REACH Q200 compliant : Please contact Chemi-Con for more details, test data, information.



SPECIFICATIONS

Items	Characteristics											
Operating 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)											
Dissipation Factor	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)	
	tan δ (Max.)	D55 to F80	0.24	0.20	0.16	0.14	0.12	0.12	—	—		—
		HA0 & JA0	0.28	0.24	0.20	0.16	0.14	0.12	—	—		—
KE0 to MN0	0.26	0.22	0.18	0.16	0.14	0.12	0.14	0.10	0.10			
Temperature Characteristics (Impedance Ratio)	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V	63V	80V	100V	(at 120Hz)	
	Z(-40°C)/Z(+20°C)	D55 to JA0	3	2	2	2	2	2	—	—		—
		KE0 to MN0	10	8	6	4	3	3	3	3		3
Reliability	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.											
Life	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.											
Life	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					

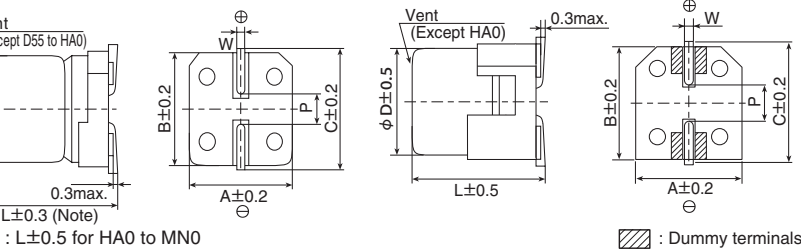
TERMINAL CODES [mm]

Terminal Code : A

Size code : D55 to MN0

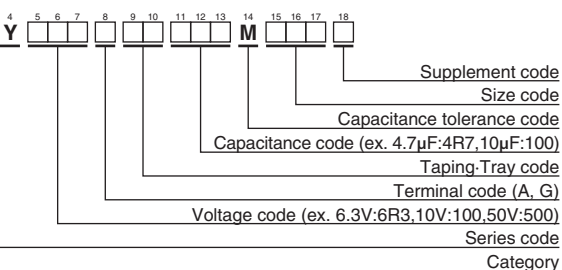
● Terminal Code : G (Vibration resistant structure)

● 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

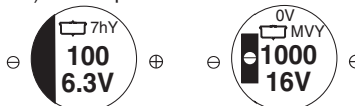
MARKING SYSTEM



MARKING

D55 to JA0
EX) 6.3V100μF

KE0 to MN0
EX) 16V1,000μF



5™-MVY Series

STANDARD RATINGS

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

Cap (µF)	Size code	Impedance (Ω max./20°C, 100kHz)	Rated ripple current (mA rms/105°C, 100kHz)	Part No.
22	D55	3.0	60	EMVY6R3ARA220MD55G
33	E55	1.8	95	EMVY6R3ARA330ME55G
47	E55	1.8	95	EMVY6R3ARA470ME55G
100	F55	1.0	140	EMVY6R3ARA101MF55G
220	F55	1.0	140	EMVY6R3ARA221MF55G
330	F80	0.34	280	EMVY6R3ARA331MF80G
470	HA0	0.30	450	EMVY6R3□RA471MHA0G
680	HA0	0.30	450	EMVY6R3□RA681MHA0G
1,000	HA0	0.30	450	EMVY6R3□RA102MHA0G
1,500	JA0	0.15	670	EMVY6R3□RA152MJA0G
2,200	KE0	0.070	820	EMVY6R3□RA222MKE0S
2,200	LH0	0.054	1,260	EMVY6R3□RA222MLH0S
3,300	KG5	0.060	950	EMVY6R3□RA332MKG5S
3,300	MH0	0.054	1,350	EMVY6R3□RA332MMH0S
4,700	LN0	0.038	1,630	EMVY6R3□RA472MLN0S
4,700	MH0	0.054	1,350	EMVY6R3□RA472MMH0S
6,800	LN0	0.038	1,630	EMVY6R3□RA682MLN0S
6,800	MN0	0.038	1,750	EMVY6R3□RA682MMN0S
8,200	MN0	0.038	1,750	EMVY6R3□RA822MMN0S
22	E55	1.8	95	EMVY100ARA220ME55G
33	E55	1.8	95	EMVY100ARA330ME55G
47	F55	1.0	140	EMVY100ARA470MF55G
100	F55	1.0	140	EMVY100ARA101MF55G
220	F80	0.34	280	EMVY100ARA221MF80G
330	HA0	0.30	450	EMVY100□RA331MHA0G
470	HA0	0.30	450	EMVY100□RA471MHA0G
680	JA0	0.15	670	EMVY100□RA681MJA0G
1,000	JA0	0.15	670	EMVY100□RA102MJA0G
2,200	KG5	0.060	950	EMVY100□RA222MKG5S
2,200	LH0	0.054	1,260	EMVY100□RA222MLH0S
3,300	LH0	0.054	1,260	EMVY100□RA332MLH0S
3,300	MH0	0.054	1,350	EMVY100□RA332MMH0S
4,700	LN0	0.038	1,630	EMVY100□RA472MLN0S
4,700	MN0	0.038	1,750	EMVY100□RA472MMN0S
6,800	MN0	0.038	1,750	EMVY100□RA682MMN0S
10	D55	3.0	60	EMVY160ARA100MD55G
22	E55	1.8	95	EMVY160ARA220ME55G
33	F55	1.0	140	EMVY160ARA330MF55G
47	F55	1.0	140	EMVY160ARA470MF55G
100	F55	1.0	140	EMVY160ARA101MF55G
220	F80	0.34	280	EMVY160ARA221MF80G
330	HA0	0.30	450	EMVY160□RA331MHA0G
470	HA0	0.30	450	EMVY160□RA471MHA0G
680	JA0	0.15	670	EMVY160□RA681MJA0G
1,000	KE0	0.070	820	EMVY160□RA102MKE0S
1,000	LH0	0.054	1,260	EMVY160□RA102MLH0S
2,200	LH0	0.054	1,260	EMVY160□RA222MLH0S
2,200	MH0	0.054	1,350	EMVY160□RA222MMH0S
3,300	LN0	0.038	1,630	EMVY160□RA332MLN0S
3,300	MH0	0.054	1,350	EMVY160□RA332MMH0S
4,700	MN0	0.038	1,750	EMVY160□RA472MMN0S
10	E55	1.8	95	EMVY250ARA100ME55G
22	F55	1.0	140	EMVY250ARA220MF55G
33	F55	1.0	140	EMVY250ARA330MF55G
47	F55	1.0	140	EMVY250ARA470MF55G
100	F55	1.0	140	EMVY250ARA101MF55G
220	F80	0.34	280	EMVY250ARA221MF80G
330	HA0	0.30	450	EMVY250□RA331MHA0G
470	HA0	0.30	450	EMVY250□RA471MHA0G
680	JA0	0.15	670	EMVY250□RA681MJA0G
1,000	KE0	0.070	820	EMVY250□RA102MKE0S
1,000	LH0	0.054	1,260	EMVY250□RA102MLH0S
2,200	LH0	0.054	1,260	EMVY250□RA222MLH0S
2,200	MH0	0.054	1,350	EMVY250□RA222MMH0S
3,300	LN0	0.038	1,630	EMVY250□RA332MLN0S
3,300	MH0	0.054	1,350	EMVY250□RA332MMH0S
4,700	MN0	0.038	1,750	EMVY250□RA472MMN0S
10	E55	1.8	95	EMVY350ARA100ME55G
22	F55	1.0	140	EMVY350ARA220MF55G
33	F55	1.0	140	EMVY350ARA330MF55G
47	F55	1.0	140	EMVY350ARA470MF55G
100	F55	1.0	140	EMVY350ARA101MF55G
220	F80	0.34	280	EMVY350ARA221MF80G
330	HA0	0.30	450	EMVY350□RA331MHA0G
470	HA0	0.30	450	EMVY350□RA471MHA0G
680	JA0	0.15	670	EMVY350□RA681MJA0G
1,000	KE0	0.070	820	EMVY350□RA102MKE0S
1,000	LH0	0.054	1,260	EMVY350□RA102MLH0S
2,200	LH0	0.054	1,260	EMVY350□RA222MLH0S
2,200	MH0	0.054	1,350	EMVY350□RA222MMH0S
3,300	LN0	0.038	1,630	EMVY350□RA332MLN0S
3,300	MH0	0.054	1,350	EMVY350□RA332MMH0S
4,700	MN0	0.038	1,750	EMVY350□RA472MMN0S
10	E55	1.8	95	EMVY500ARA100ME55G
22	F55	1.0	140	EMVY500ARA220MF55G
33	F55	1.0	140	EMVY500ARA330MF55G
47	F55	1.0	140	EMVY500ARA470MF55G
100	F55	1.0	140	EMVY500ARA101MF55G
220	F80	0.34	280	EMVY500ARA221MF80G
330	HA0	0.30	450	EMVY500□RA331MHA0G
470	HA0	0.30	450	EMVY500□RA471MHA0G
680	JA0	0.15	670	EMVY500□RA681MJA0G
1,000	KE0	0.070	820	EMVY500□RA102MKE0S
1,000	LH0	0.054	1,260	EMVY500□RA102MLH0S
2,200	LH0	0.054	1,260	EMVY500□RA222MLH0S
2,200	MH0	0.054	1,350	EMVY500□RA222MMH0S
3,300	LN0	0.038	1,630	EMVY500□RA332MLN0S
3,300	MH0	0.054	1,350	EMVY500□RA332MMH0S
4,700	MN0	0.038	1,750	EMVY500□RA472MMN0S
10	E55	1.8	95	EMVY1000ARA100ME55G
22	F55	1.0	140	EMVY1000ARA220MF55G
33	F55	1.0	140	EMVY1000ARA330MF55G
47	F55	1.0	140	EMVY1000ARA470MF55G
100	F55	1.0	140	EMVY1000ARA101MF55G
220	F80	0.34	280	EMVY1000ARA221MF80G
330	HA0	0.30	450	EMVY1000□RA331MHA0G
470	HA0	0.30	450	EMVY1000□RA471MHA0G
680	JA0	0.15	670	EMVY1000□RA681MJA0G
1,000	KE0	0.070	820	EMVY1000□RA102MKE0S
1,000	LH0	0.054	1,260	EMVY1000□RA102MLH0S
2,200	LH0	0.054	1,260	EMVY1000□RA222MLH0S
2,200	MH0	0.054	1,350	EMVY1000□RA222MMH0S
3,300	LN0	0.038	1,630	EMVY1000□RA332MLN0S
3,300	MH0	0.054	1,350	EMVY1000□RA332MMH0S
4,700	MN0	0.038	1,750	EMVY1000□RA472MMN0S

VV (V _{dc})	Cap (µF)	Size code	Impedance (Ω max./20°C, 100kHz)	Rated ripple current (mA rms/105°C, 100kHz)	Part No.
25	330	HA0	0.30	450	EMVY250□RA331MHA0G
	470	JA0	0.15	670	EMVY250□RA471MJA0G
	1,000	LH0	0.054	1,260	EMVY250□RA102MLH0S
	1,000	MH0	0.054	1,350	EMVY250□RA102MMH0S
	2,200	LN0	0.038	1,630	EMVY250□RA222MLN0S
	2,200	MN0	0.038	1,750	EMVY250□RA222MMN0S
	3,300	MN0	0.038	1,750	EMVY250□RA332MMN0S
	35	4.7	D55	3.0	60
10		E55	1.8	95	EMVY350ARA100ME55G
22		F55	1.0	140	EMVY350ARA220MF55G
33		F55	1.0	140	EMVY350ARA330MF55G
47		F55	1.0	140	EMVY350ARA470MF55G
47		F61	1.0	140	EMVY350ARA470MF61G
68		F80	0.34	280	EMVY350ARA680MF80G
100		HA0	0.30	450	EMVY350□RA101MHA0G
220		HA0	0.30	450	EMVY350□RA221MHA0G
330		JA0	0.15	670	EMVY350□RA331MJA0G
470		KE0	0.070	820	EMVY350□RA471MKE0S
470		LH0	0.054	1,260	EMVY350□RA471MLH0S
50	1,000	LH0	0.054	1,260	EMVY350□RA102MLH0S
	1,000	MH0	0.054	1,350	EMVY350□RA102MMH0S
	2,200	MN0	0.038	1,750	EMVY350□RA222MMN0S
	1.0	D55	5.0	30	EMVY500ARA1R0MD55G
	2.2	D55	5.0	30	EMVY500ARA2R2MD55G
	3.3	D55	5.0	30	EMVY500ARA3R3MD55G
	4.7	E55	3.0	50	EMVY500ARA4R7ME55G
	10	F55	2.0	70	EMVY500ARA100MF55G
	22	F55	2.0	70	EMVY500ARA220MF55G
	33	F80	0.60	170	EMVY500ARA330MF80G
	47	F80	0.60	170	EMVY500ARA470MF80G
	68	HA0	0.60	300	EMVY500□RA680MHA0G
63	100	HA0	0.60	300	EMVY500□RA101MHA0G
	220	JA0	0.30	500	EMVY500□RA221MJA0G
	330	KE0	0.11	650	EMVY500□RA331MKE0S
	330	LH0	0.087	900	EMVY500□RA331MLH0S
	470	LH0	0.087	900	EMVY500□RA471MLH0S
	470	MH0	0.087	1,060	EMVY500□RA471MMH0S
	1,000	MN0	0.050	1,520	EMVY500□RA102MMN0S
	68	KE0	0.19	500	EMVY630□RA680MKE0S
	100	KE0	0.19	500	EMVY630□RA101MKE0S
	220	KE0	0.19	500	EMVY630□RA221MKE0S
	220	LH0	0.12	845	EMVY630□RA221MLH0S
	330	LH0	0.12	845	EMVY630□RA331MLH0S
80	330	MH0	0.12	905	EMVY630□RA331MMH0S
	470	LN0	0.085	1,100	EMVY630□RA471MLN0S
	470	MH0	0.12	905	EMVY630□RA471MMH0S
	100	KE0	0.33	450	EMVY800□RA101MKE0S
	220	KG5	0.26	550	EMVY800□RA221MKG5S
	330	LN0	0.16	900	EMVY800□RA331MLN0S
100	330	MH0	0.24	700	EMVY800□RA331MMH0S
	470	MN0	0.16	950	EMVY800□RA471MMN0S
	47	KE0	0.33	450	EMVY101□RA470MKE0S
	68	KE0	0.33	450	EMVY101□RA680MKE0S
	100	KE0	0.33	450	EMVY101□RA101MKE0S
	100	LH0	0.24	650	EMVY101□RA101MLH0S
100	220	LN0	0.16	900	EMVY101□RA221MLN0S
	220	MH0	0.24	700	EMVY101□RA221MMH0S
	330	MN0	0.16	950	EMVY101□RA331MMN0S

Refer to the appropriate terminal code.

STANDARD RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Code	Capacitance (µF)	Frequency (Hz)	120	1k	10k	100k
JA0	1.0 to 4.7		0.35	0.70	0.90	1.00
	10 to 100		0.40	0.75	0.90	1.00
	220 to 470		0.50	0.85	0.94	1.00
	680 to 1,500		0.60	0.87	0.95	1.00
MN0	4.7 to 100		0.40	0.75	0.90	1.00
	220 to 470		0.50	0.85	0.94	1.00
	1,000		0.60	0.87	0.95	1.00
	2,200 to 3,300		0.75	0.90	0.95	1.00

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