MVG Series

● 85℃ 2,000Hrs assured

Solvent-proof

- Vertical SMD type
- Downsized of MV Series
- EMVG Series : Ecological capacitors with the same characteristics as MVG

MV → Downsized → MVG

SPECIFICATIONS

Item	Characteristics
Rated Voltage Range	4~ 50 V_{DC}
Operating Temperature Range	-40 ~ + 85 ℃
Capacitance Tolerance	±20% (M) (at 20 ° C ,120 Hz)
Leakage Current	I =0.01CV (μA) or 3μA, whichever is greater Where, I : Max, leakage current(μA) C : Nominal capacitance(μF) V : Rated voltage(V_{DC}) (at 20 ° C,2 minutes)
Dissipation Factor (Tanδ)	(at 20 ° C,120Hz)
Temperature Characteristics (Impedance ratio)	(at 120Hz)
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20 ° C after the rated voltage applied for 2,000 hours at 85 ℃.
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20 ℃ after exposing them for 1,000 hours at 85 ℃ without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes , at least 24 hours and not more than 48 hours before the measurement.
Others	Satisfied characteristics W of KS C 6421

Rated Voltage(V_{DC})	4	6.3	10	16	25~50
Tanδ(Max.)	0.42	0.40	0.30	0.20	0.15

Rated Voltage(V_{DC})	4	6.3	10	16	25	35	50
Z (-25℃) / Z (20℃)	7	4	3	2	2	2	2
Z (40℃) / Z (20℃)	15	10	8	6	4	3	3

Rated Voltage(V_{DC})	4 ~ 6.3	10 ~ 50
Capacitance change	≤ ±30% of the initial value	≤ ±25% of the initial value
TAN δ	≤ 300 % of the initial specified value	
Leakage Current	≤ The initial specified value	

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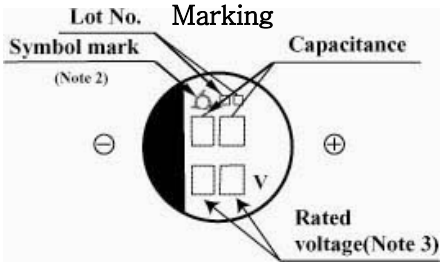
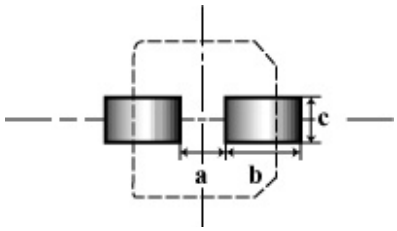
DIMENSIONS OF MVG Series (Type : VC)

Unit(mm)

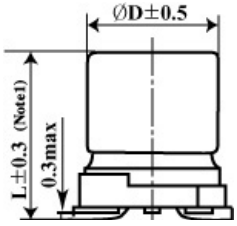
DIMENSIONS

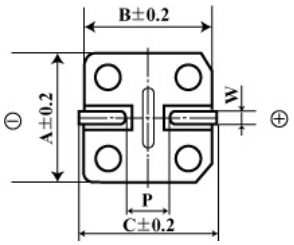


Recommended solder land on PC board



Sold land on PC board





Note 1: L± For 8× 6.3(H63), 8× 10(H10)

Note 2: 4× 5.3(D56), 5× 5.3(E56) is excluded symbol mark.

Note 3: 6.3WV is marked by 6V.

Note 4: Case Color ; Clarity Green

Case code	Ø D	L	A	B	C	W	P	a	b	C
D56	Ø 4	5.3	4.3	4.3	5.1	0.5-0.8	1.0	1.0	2.6	1.6
E56	Ø 5	5.3	5.3	5.3	5.9	0.5-0.8	1.4	1.4	3.0	1.6
F56	Ø 6.3	5.3	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6
F60	Ø 6.3	5.7	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6
F80	Ø 6.3	7.7	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6
H63	Ø 8	6.3	8.3	8.3	9.0	0.5-0.8	2.3	2.3	4.5	1.6
H10	Ø 8	10	8.3	8.3	9.0	0.7-1.1	3.1	3.1	4.2	2.2

RATINGS OF MVG Series

μF \ V_{DC}	4(0G)		6.3(0J)		10(1A)		16(1C)		25(1E)		35(1V)		50(1H)	
0.1													D56	1.3
0.22													D56	2.9
0.33													D56	3.5
0.47													D56	4.2
1													D56	6.2
2.2													D56	10
3.3													D56	14
4.7											D56	15	D56	19
10							D56	17	D56	20	D56	25	E56	29
22			D56	23	D56	27	D56	27	E56	28	F56	33	F60	40
33	D56	23	D56	30	D56	30	E56	40	E56	40	F56	40	F80	55
47	D56	27	D56	33	E56	45	E56	45	F56	60	F60	55	H63	85
68	E56	38	E56	49	F56	54	F56	78	F60	90	H63	157		

100	E56	46	E56	55	F56	65	F60	85	H63/F 80	145	H10	175	
220	F56	74	F60	75	H63	130	F80	130	H10	260	H10	260	
330			H63	135	H10	270	H10	270					
470			H10	280	H10	280	H10	280