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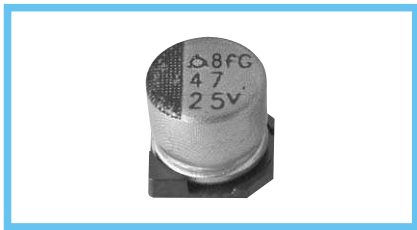
EN: This Datasheet is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

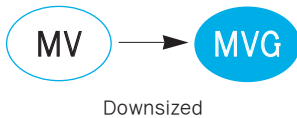
MVG Series

• 85°C 1,000~2,000Hrs assured.

Solvent-proof

 $WV \leq 63V_{DC}$


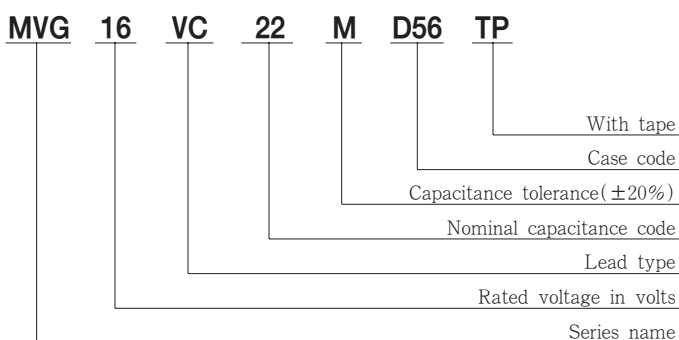
- Vertical SMD Type.
- Downsized of MV Series.
- For CD/DVD-ROM, Navigation, LCD MT/TV
- RoHS compliant.
- Halogen-free capacitors are also available.



SPECIFICATIONS

Item	Characteristics									
Rated Voltage Range	4 ~ 450 V _{DC}									
Operating Temperature Range	-40 ~ +85°C									
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)									
Leakage Current	Rated Voltage(V _{DC})	4~100						160~450		
	Max. leakage current(μA)	0.01CV (μA) or 3μA, whichever is greater. (at 20°C, 2 minutes)						0.04CV + 100(μA) (at 20°C, 1 minute)		
Where, C:Nominal capacitance(μF), V:Rated voltage(V _{DC})										
Dissipation Factor Tan δ(Max.)	Rated Voltage(V _{DC})	4	6.3	10	16	25~50	63~100	160~250	400~450	
	Tan δ(Max.)	0.42	0.40	0.30	0.20	0.15	0.12	0.20	0.25	
(at 20°C, 120Hz)										
Temperature Characteristics (Max. Impedance ratio)	Rated Voltage(V _{DC})	4	6.3	10	16	25	35~50	63~100	160~250	400~450
	Z(-25°C)/Z(+20°C)	7	4	3	2	2	2	3	3	6
	Z(-40°C)/Z(+20°C)	15	10	8	6	4	3	4	6	10
(at 120Hz)										
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 85°C. (where, 1,000 hours for ø 3)									
	Rated Voltage(V _{DC})	4 ~ 6.3			10 ~ 100			160~450		
	Capacitance change	≤ ±30% of the initial value			≤ ±25% of the initial value			≤ ±20% of the initial value		
	TANδ	≤ 300% of the initial specified value						≤ 200% of the initial specified value		
Leakage Current	≤ The initial specified value									
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 85°C 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. (where, 500 hours for ø 3)									
	Rated Voltage(V _{DC})	4 ~ 6.3			10 ~ 100			160~450		
	Capacitance change	≤ ±30% of the initial value			≤ ±25% of the initial value			≤ ±20% of the initial value		
	TANδ	≤ 300% of the initial specified value						≤ 200% of the initial specified value		
	Leakage Current	≤ The initial specified value								
Others	Satisfied characteristics W of KS C 6421									

PART NUMBERING SYSTEM



Capacitance	Code
0.1μF	R1
0.47μF	R47
1.0μF	1
4.7μF	4R7
10μF	10
100μF	100

DIMENSIONS OF MVG Series(Type:VC)

DIMENSIONS

● Vibration Resistance

<Size code: B55~M22> <Size code: L17~M22>

■ : Dummy terminals

Recommended Solder land on PC board

■ : Solder land on PC board

MARKING

Note 1 : $L \pm 0.5$ for 8×6.3 (H63) ~ 18×21.5 (M22)

Note 2 : 3×5.2 (B55), 4×5.3 (D56), 5×5.3 (E56) is excluded symbol mark

Note 3 : 6.3WV is marked by 6V

Case code	∅D	L	A	B	C	W	P	a	b	c	a	b	c
B55	3	5.2	3.3	3.3	3.7	0.45-0.75	0.8	0.8	2.2	1.6			
D56	4	5.3	4.3	4.3	5.1	0.5-0.8	1.0	1.0	2.6	1.6			
E56	5	5.3	5.3	5.3	5.9	0.5-0.8	1.4	1.4	3.0	1.6			
F56	6.3	5.3	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6			
F60	6.3	5.7	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6			
F80	6.3	7.7	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6			
H63	8	6.3	8.3	8.3	9.0	0.5-0.8	2.3	2.3	4.5	1.6			
H10	8	10	8.3	8.3	9.0	0.7-1.1	3.1	3.1	4.2	2.2			
J10	10	10	10.3	10.3	11.0	0.7-1.1	4.5	4.5	4.4	2.2			
K14	12.5	13.5	13.0	13.0	13.7	1.0-1.3	4.2	4.0	5.7	2.5			
L17	16	16.5	17.0	17.0	18.0	1.0-1.3	6.5	6.0	6.9	2.5	4.7	7.8	9.6
L22	16	21.5	17.0	17.0	18.0	1.0-1.3	6.5	6.0	6.9	2.5			
M17	18	16.5	19.0	19.0	20.0	1.0-1.3	6.5	6.0	7.9	2.5	4.7	8.8	9.6
M22	18	21.5	19.0	19.0	20.0	1.0-1.3	6.5	6.0	7.9	2.5			

● Vibration Resistance

RATING OF MVG Series

Vdc / μF	4(0G)	6.3(0J)	10(1A)	16(1C)	25(1E)	35(1V)	50(1H)	63(1J)	100(2A)					
0.1							B55 D56	1.1 1.3	D56 1.3					
0.22							B55 D56	2.0 2.9	D56 3.0					
0.33							B55 D56	3.0 3.5	D56 4.0					
0.47							B55 D56	3.8 4.2	D56 5.0					
1							B55 D56	5.6 6.2	D56 8.0					
2.2						B55 D56	7.7	B55 D56	8.3 10	D56 12				
3.3						B55 D56	9.4	D56	14	E56 17				
4.7					B55 D56	10.5	D56	15	D56 19	E56 20				
10			B55 D56	12.8	B55 D56	14 17	D56	20	D56 25	E56 29	F60 32			
22	B55 D56	14	B55 D56	23	D56	27	D56	27	E56 28	F56 33	F60 40	F80 60	H10 90	
33	D56	23	D56	30	D56	30	E56	40	E56 40	F56 40	F80 55	H10 110	J10 120	
47	D56	27	D56	33	E56	45	E56	45	F56 60	F60 55	H63 140	H10 130	J10 144	
68	E56	38	E56	49	F56	54	F56	78	F60 90	H63 157	H10 170	J10 170	K14 380	
100	E56	46	E56	55	F56	65	F60	85	F80 H63	145	H10 175	H10 190	K14 380	K14 440
220	F56	74	F60	75	F80 H63	130	F80	130	H10 260	H10 260	J10 320	K14 580	M17 800	
330			F80 H63	135	H10	270	H10	270	H10 300	J10 360	K14 600	L17 850	M17 1000	
470			H10	280	H10	280	H10	280	J10 400	K14 600	L17 850	M17 1000		
1,000			J10	430	J10	430	K14	710	K14 820	L17 1100	L22 1300			
1,500			J10	480	K14	850								
2,200			K14	890	K14	960	L17	1150	M17 1400	M22 1700				
3,300			L17	1200	L17	1300	M17	1450	M22 1800					
4,700			L17	1400	M17	1600	M22	1750						
6,800			M17	1700	M22	1850								
10,000			M22	2000										

Vdc / μF	160(2C)	200(2D)	250(2E)	400(2G)	450(2W)
4.7				K14 120	K14 120
10	J10 55	K14 150	K14 150	L17 140	L17 140
22	K14 240	K14 240	L17 300	M17 280	L22 280
33	K14 260	L17 350	L17 340	M22 350	M22 350
47	L17 400	L17 420	M17 420		
68	L17 500	M17 510	M22 490		
100	M17 590	M22 590			

Rated Ripple Current(mArms/85°C, 120Hz)
Case code

* Height 4.6mm max. is available request.
Please check with us about individual size and dimensions.