

BDS(MVK) Series

• 105°C 1,000~2,000Hrs assured.

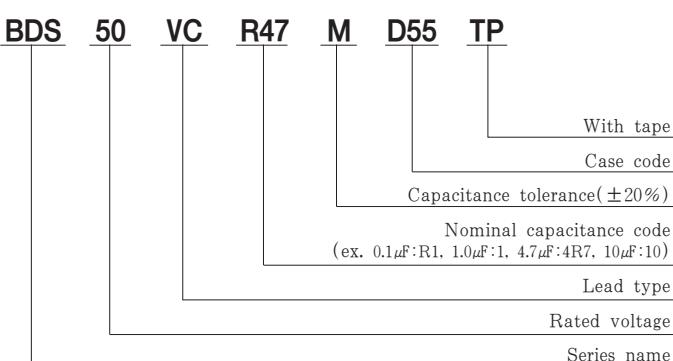
- Vertical SMD type.
- Wide Temperature range.
- For CD/DVD-ROM, Navigation, LED MT/TV.
- RoHS compliant.
- Halogen-free capacitors are also available.

WV ≤ 63V_{DC}

Wide Temp.

**SPECIFICATIONS**

Item	Characteristics														
Rated Voltage Range	6.3 ~ 450 V _{DC}														
Operating Temperature Range	-40 ~ +105°C														
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)														
Leakage Current	Rated Voltage(V _{DC})	6.3~100			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)	Rated voltage(V _{DC})	6.3	10	16	25	35	50~100	160~250							
	Ø4~Ø6.3	0.30	0.24	0.20	0.16	0.14	0.12	-							
	Ø8~Ø18	0.40	0.30	0.26	0.16	0.14	0.12	0.15							
(at 20°C, at 120Hz)															
Temperature Characteristics (Max. Impedance ratio)	Rated voltage(V _{DC})	6.3	10	16	25	35	50~100	160~250							
	Z(-25°C)/Z(+20°C)	4	3	2	2	2	3	3							
	Z(-40°C)/Z(+20°C)	10	8	6	4	3	4	6							
(at 120Hz)															
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied with the following conditions.														
	Ø4~Ø6.3:105°C, 1,000 hours,	Ø8~Ø18:105°C, 2,000 hours.													
	Capacitance change Ø4~Ø6.3 ≤ ±30% of the initial value Ø8~Ø18 ≤ ±20% of the initial value														
Shelf Life	Tanδ Ø4~Ø6.3 ≤ 300% of the initial specified value Ø8~Ø18 ≤ 200% of the initial specified value														
	Leakage current ≤ The initial specified value														
	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for the specified time at 105°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 measurements.														
Others	Ø4~Ø6.3:105°C, 500 hours, Ø8~Ø18:105°C, 1,000 hours.														
	Capacitance change Ø4~Ø6.3 ≤ ±25% of the initial value Ø8~Ø18 ≤ ±20% of the initial value														
	Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value														
Others		Satisfied characteristics KS C IEC 60384-4													

PART NUMBERING SYSTEM**RATED RIPPLE CURRENT MULTIPLIERS**

Frequency Multipliers

Size code	Cap.(μF)	Freq.(Hz)				
		0.1 ~ 1.0	1.00	1.50	1.75	1.80
D55~J10	2.2 ~ 10	1.00	1.30	1.40	1.50	
	22 ~ 1,500	1.00	1.05	1.08	1.08	
	3.3 ~ 4.7	1.00	1.75	2.30	2.50	
K14~M22	10 ~ 68	1.00	1.50	1.75	1.80	
	100 ~ 1,000	1.00	1.30	1.40	1.50	
	1,500 ~ 6,800	1.00	1.05	1.08	1.08	



SURFACE MOUNT ALUMINUM ELECTROLYtic CAPACITORS

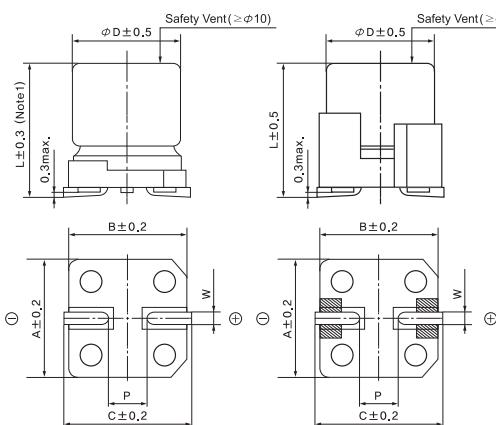
DIMENSIONS OF BDS(MVK) Series

Unit(mm)

DIMENSIONS

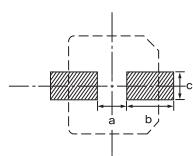
● Vibration Resistance

⟨Size code:D55~M22⟩ ⟨Size code:H10~M22⟩



■ : Dummy terminals

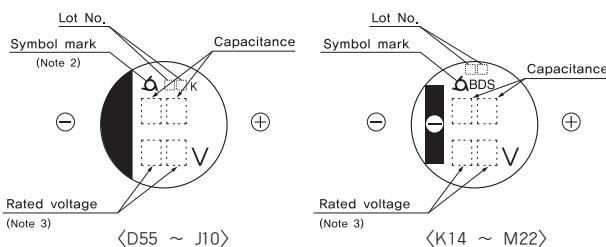
Recommended Solder land on PC board



■ : Solder land on PC board

※ Please inquire beforehand for 16, 18Ø size

MARKING



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

Note 2 : 4×5.2(D55), 5×5.2(E55) is excluded symbol mark.

Note 3 : 6.3WV is marked by 6V.

Case code	ϕD	L	A	B	C	W	P	a	b	c	a	b	c
D55	4	5.2	4.3	4.3	5.1	0.5~0.8	1.0	1.0	2.6	1.6			
E55	5	5.2	5.3	5.3	5.9	0.5~0.8	1.4	1.4	3.0	1.6			
F55	6.3	5.2	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	3.1	4.2	3.5
J10	10	10	10.3	10.3	11.0	0.7~1.1	4.5	4.5	4.4	2.2	4.5	4.4	3.5
K14	12.5	13.5	13.0	13.0	13.7	1.0~1.3	4.2	4.0	5.7	2.5	3.4	6.3	9.3
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

RATINGS OF BDS(MVK) Series

μF	6.3	10	16	25	35	50	63	100
0.1						D55	1.3	
0.22						D55	2.6	
0.33						D55	3.2	
0.47						D55	3.8	
1						D55	5.6	
2.2						D55	10	
3.3						D55	14	
4.7					D55	15	E55	20
10			D55	16	E55	25	F55	29
22	D55	21	E55	30	E55	40	F60	32
33	E55	34	E55	34	F55	45	H63	48
47	E55	36	F55	48	F55	52	H10	80
100	F55 F60	56	F60 H63	90	F60 H10	110 180	F80 H63	135
220	H63	150	F80 H63	150	F80 H10	150 275	H10	275
330	F80 H10	127 290	J10	450	J10	450	K14	420
470	J10	460	J10	460	J10	460	K14	470
1,000	J10	520	J10	540	K14	550	L17	700
1,500	J10	550	K14	620				
2,200	K14	680	L17	850	M17	1,000	M22	1,450
3,300	M17	1,000	M17	1,100	M17	1,200		
4,700	L22	1,200	M22	1,350				
6,800	M22	1,350						

μF	160	200	250	400	450	
3.3				K14	30	
4.7			K14	65	K14	40
10	J10	45	K14	80	L17	60
22	K14	85	K14	85	L17	85
33	K14	95	L17	220	M22	130
47	L17	260	M17	270	M22	280
68	M17	320	M22	330		
100	L22	380				

↑ ↑
Rated Ripple Current(mA rms/105°C, 120Hz)
Case code

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