

SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS



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.

Solvent-proof

WV \leq 63V_{DC}

MV

BDS
(MVK)

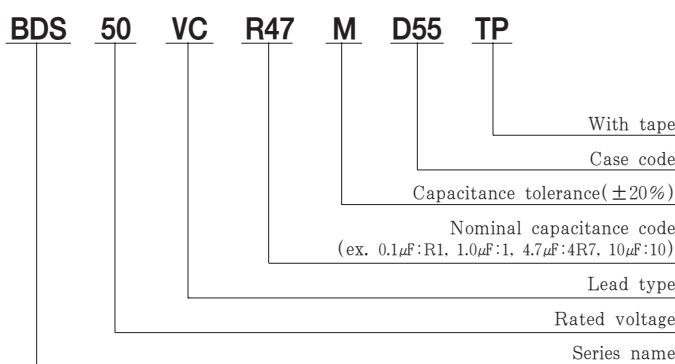
Wide Temp.



SPECIFICATIONS

Item	Characteristics														
Rated Voltage Range	6.3 ~ 450 V _{DC}														
Operating Temperature Range	-40 ~ +105°C														
Capacitance Tolerance	$\pm 20\%$ (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(Tanδ)	Rated voltage(V _{DC})	6.3	10	16	25	35	50~100	160~250	400~450						
	Ø 4 ~ Ø 6.3	0.30	0.24	0.20	0.16	0.14	0.12	-	-						
Temperature Characteristics (Max. Impedance ratio)	Ø 8 ~ Ø 18	0.40	0.30	0.26	0.16	0.14	0.12	0.15	0.20						
	(at 20°C, at 120Hz)														
Load Life	Rated voltage(V _{DC})	6.3	10	16	25	35	50~100	160~250	400~450						
	Z(-25°C)/Z(+20°C)	4	3	2	2	2	3	3	6						
	Z(-40°C)/Z(+20°C)	10	8	6	4	3	4	6	15						
Shelf Life	(at 120Hz)														
	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied with the following conditions.														
	Ø 4 ~ Ø 6.3:105°C, 1,000 hours, Ø 8 ~ Ø 18:105°C, 2,000 hours.														
Others	Capacitance change	Ø 4 ~ Ø 6.3	$\leq \pm 30\%$ of the initial value												
	Ø 8 ~ Ø 18	$\leq \pm 20\%$ of the initial value													
	Tanδ	Ø 4 ~ Ø 6.3	$\leq 300\%$ of the initial specified value												
Shelf Life	Ø 8 ~ Ø 18	$\leq 200\%$ of the initial specified value													
	Leakage current	\leq 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	Ø 4 ~ Ø 6.3:105°C, 500 hours, Ø 8 ~ Ø 18:105°C, 1,000 hours.														
	Capacitance change	Ø 4 ~ Ø 6.3	$\leq \pm 25\%$ of the initial value												
	Ø 8 ~ Ø 18	$\leq \pm 20\%$ of the initial value													
Others	Tanδ	$\leq 200\%$ of the initial specified value													
	Leakage current	\leq The initial specified value													
	Satisfied characteristics KS C IEC 60384-4														

PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Size code	Freq.(Hz)	Cap.(μF)			
		0.1 ~ 1.0	1.00	1.50	1.75
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

BDS(MVK)
Series



SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

DIMENSIONS OF BDS(MVK) Series

Unit(mm)

DIMENSIONS												MARKING											
● Vibration Resistance												● Vibration Resistance											
<Size code:D55~M22>												<Size code:H10~M22>											
Recommended Solder land on PC board																							

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