

## Surface Mount Type Miniature, Low profile (solvent proof) 4.5mm L.

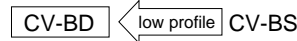
# CV-BD

Series

CV-BD series realizes lower profile model of 4.6mm MAX. in length than standard CV-BS series of 5.5mm.

CD-BD series contributes toward miniaturization of any products.

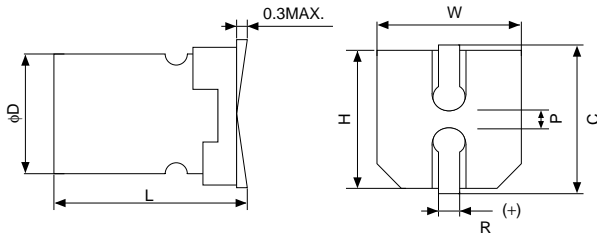
Solvent proof (within 2 minutes).



### Specifications

Items		Specifications						
Rated voltage (V)		4	6.3	10	16	25	35	50
Operating temperature range (°C)		-40 to +85						
Capacitance tolerance (%)		±20 (120Hz)						
Tangent of loss angle (tan δ)(MAX.)(120Hz)		0.40	0.30	0.24	0.20	0.16	0.14	0.12
Leakage current (L.C.)(μA/after 2min.)(MAX.)		The greater value of either 0.01CV or 3						
Impedance (120Hz) ratio at low temperature (MAX.)	Z <sub>-25°C</sub> /Z <sub>20°C</sub>	7	4	3	2	2	2	2
	Z <sub>-40°C</sub> /Z <sub>20°C</sub>	15	10	8	6	4	4	4
High-temperature load 85°C 1000hrs. rated voltage applied.	ΔC/C	Within ±25% of the initial value						
	tan δ	≤ Twice the initial standard						
	L.C.	≤ The initial standard						
Resistance to soldering heat	Test	Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following conditions after being cooled to room temperature.						
	ΔC/C	Within ±10% of the initial value						
	tan δ	≤ The initial standard						
	L.C.	≤ The initial standard						
Other characteristics		Conform to IEC 384-18						

### Dimensions



(unit : mm)

D <sub>+0.5MAX.</sub>	L <sub>+0.1 -0.2</sub>	W <sub>±0.2</sub>	H <sub>±0.2</sub>	C <sub>±0.2</sub>	R	P <sub>±0.2</sub>
4	4.5	4.3	4.3	5.0	0.5 to 0.8	1.0
5	4.5	5.3	5.3	6.0	0.5 to 0.8	1.4
6.3	4.5	6.6	6.6	7.3	0.5 to 0.8	2.2

### Size List

μF \ V	4	6.3	10	16	25	35	50
0.10							4×4.5   1.0
0.22							4×4.5   2.0
0.33							4×4.5   2.8
0.47							4×4.5   4.0
1.0							4×4.5   8.4
2.2							4×4.5   14
3.3							4×4.5   17
4.7					4×4.5   17	4×4.5   18	5×4.5   21
10				4×4.5   23	5×4.5   27	5×4.5   29	6.3×4.5   33
22		4×4.5   28	5×4.5   33	5×4.5   37	6.3×4.5   47	6.3×4.5   49	
33	4×4.5   28	5×4.5   37	5×4.5   41	6.3×4.5   51	6.3×4.5   57		
47	4×4.5   33	5×4.5   45	6.3×4.5   53	6.3×4.5   61			
100	5×4.5   56	6.3×4.5   70					
220	6.3×4.5   96						

Model No.  
16CV22BD

22μF, nominal capacitance  
16V, rated voltage

φD×L

Ripple current  
mA r.m.s.  
(120Hz, 85°C)