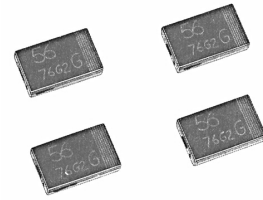


## Surface Mount Type

Series: **CD**

# SP-Cap

Japan

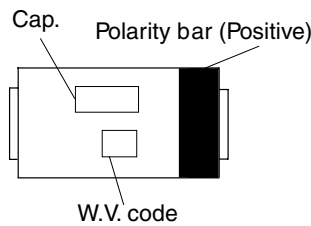


- **Features** Excellent Noise-absorbent Characteristics  
Low profile type (1.8mm Height)

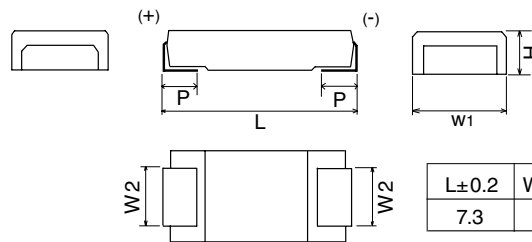
### ■ Specification

Operating Temp. Range	-40 to +105°C	
Rated W.V Range	2 to 16 V. DC	
Nominal Cap.Range	2.2 to 150 μF	
Capacitance Tolerance	±20 % (120 Hz / +20°C)	
DC Leakage Current	$I \leq 0.04 CV$ or $3 (\mu A)$ 2 minutes (whichever is the greater) (2 W.V. to 4 W.V. : $I \leq 0.06 CV$ )	
Dissipation Factor	$\leq 0.06$ (120 Hz / +20°C)	
Surge Voltage	Rated Working Voltage x 1.25 (15 to 35°C)	
Endurance	After applying rated working voltage for 1000 hours at +105 ±2 °C, and then being stabilized at +20°C, capacitor shall meet the following limits.	
	Capacitance change	± 10 % of initial measured value
	D.F.	$\leq$ Initial specified value
Moisture resistance	After storing for 500 hours at +60°C, 90%R.H.	
	Capacitance change	+40%,-20% of initial measured value(2, 2.5 W.V.:+70%,-20%, 4W.V.:+60%,-20% 6.3 W.V.:+50%,-20%)
	D.F.	$\leq 200$ % of initial specified value
	DC leakage current	$\leq$ Initial specified value

### ■ Marking



### ■ Dimensions in mm (not to scale)



### ■ Standard product

Rated W.V. (V.DC)	Capacitance (±20%) (μF)	Specification		Part Number	Min Pkg Q'ty (pcs)
		* Ripple Current (A r.m.s./100kHz) +20 to 105°C	* ESR (mΩ) max (100kHz/+20°C)		
2	100	2.5	18	EEFCD0D101R	3500
	120	2.5	18	EEFCD0D121R	3500
	150	2.5	18	EEFCD0D151R	3500
2.5	82	2.5	18	EEFCD0E820R	3500
	100	2.5	18	EEFCD0E101R	3500
	120	2.5	18	EEFCD0E121R	3500
4	56	2.5	18	EEFCD0G560R	3500
	68	2.5	18	EEFCD0G680R	3500
	82	2.5	18	EEFCD0G820R	3500
6.3	10	1.4	55	EEFCD0J100R	3500
	22	1.6	40	EEFCD0J220R	3500
	33	2.0	28	EEFCD0J330R	3500
	47	2.5	18	EEFCD0J470R	3500
	68	2.5	18	EEFCD0J680R	3500
8	8.2	1.4	55	EEFCD0K8R2R	3500
	15	1.6	40	EEFCD0K150R	3500
	22	2.0	28	EEFCD0K220R	3500
	33	2.5	18	EEFCD0K330R	3500
12.5	4.7	1.0	80	EEFCD1B4R7R	3500
	10	1.0	60	EEFCD1B100R	3500
	15	1.3	50	EEFCD1B150R	3500
	22	1.6	30	EEFCD1B220R	3500
16	2.2	1.0	110	EEFCD1C2R2R	3500
	4.7	1.0	80	EEFCD1C4R7R	3500
	6.8	1.0	70	EEFCD1C6R8R	3500
	8.2	1.3	45	EEFCD1C8R2R	3500

\* Changed Ripple/ESR limits after APR/2002 production lot.