

# EP (CD293B)

- ⊙ 20mm height snap-ins..
- ⊙ Ideally suited for flat design of switching power supply.
- ⊙ Adapted to the ROHS directive (2002/95/EC).



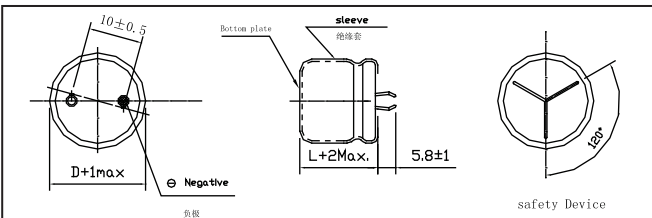
## Specifications

Item	Performance Characteristics	
Operating temperature ran	-40°C~ +85°C	
Rated voltage range	160 ~ 400 V	
Capacitance tolerance	±20% (120Hz, +20°C)	
Leakage current	$I \leq 3\sqrt{CV}$ (µA) 5 (at 20°C, after 5minutes)	
Dissipation factor (tg δ) (+20°C, 120Hz)	$U_R$ (V)	160~400
	tg δ	0.20
Temperature characteristics (Impedance ratio at 120Hz)	$U_R$ (V)	160~400
	Z-25°C/+20°C	4
Load life	After applying rated voltage with specified ripple current for 3000 hours at +85°C and then resumed 16 hours: Capacitance change : ±20% Initial measured value Leakage current : ≤ Initial specified value Dissipation factor : ≤ 2 times Initial specified value	
Shelf life	After storage for 1000 hours at +85°C, $U_R$ to be applied for 30 minutes and then resumed 16 hours Capacitance change : ±15% Initial measured value Leakage current : ≤ Initial specified value Dissipation factor : ≤ 1.5 times Initial specified value	

## Case size table

Unit: mm

Frequency coefficient



Temperature(°C)	+20~45	+65	+75	+85
Factor	1.37	1.25	1.18	1.00

## Dimensions

$C_R(\mu F)$	Code	$U_R$ 160V		180V		200V		250V		315V		400V		450V	
		2C	2K	2D	2E	2F	2G	2W							
39	390											20x20	0.32	20x20	0.36
47	470											22x20	0.37	22x20	0.41
56	560									20x20	0.38	25x20	0.40	25x20	0.43
68	680									22x20	0.45	25x20	0.46	25x20	0.50
82	820									22x20	0.48	30x20	0.55	30x20	0.53
100	101							20x20	0.51	25x20	0.56	30x20	0.60	35x20	0.61
120	121					20x20	0.56	22x20	0.60	30x20	0.65	35x20	0.75		
150	151			20x20	0.62	22x20	0.73	25x20	0.74	30x20	0.70	35x20	0.80		
180	181	20x20	0.68	22x20	0.80	22x20	0.80	25x20	0.75	35x20	0.85				
220	221	22x20	0.81	25x20	0.90	25x20	0.85	30x20	0.95	35x20	0.90				
270	271	25x20	0.98	25x20	0.95	30x20	1.05	30x20	1.00						
330	331	25x20	1.02	30x20	1.15	30x20	1.10	35x20	1.16						
390	391	30x20	1.25	30x20	1.20	35x20	1.30								
470	471	30x20	1.30	35x20	1.36	35x20	1.41								
560	561	35x20	1.46	35x20	1.43										
680	681	35x20	1.51												

Rated ripple current(A,+85°C,120Hz)