

IP

(CD295)

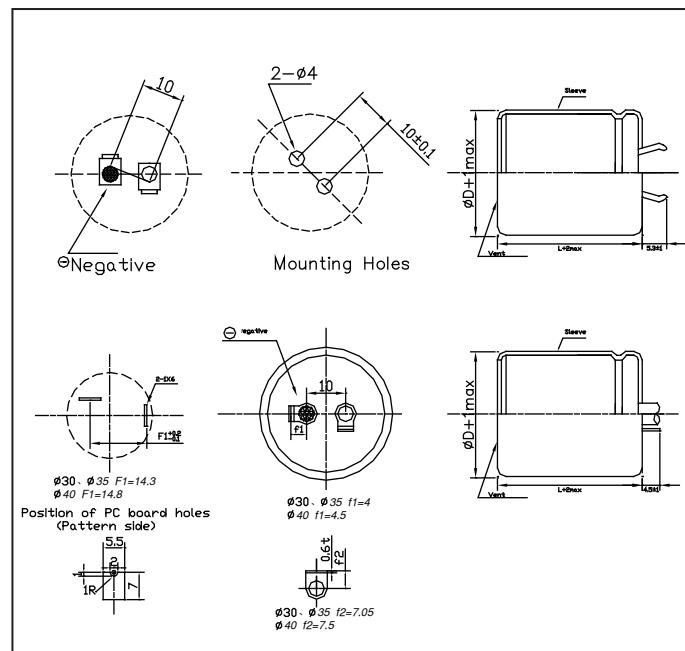
- ◎ High ripple current ,Smaller size ,Load life of 5000 hours at 85°C,
Used in PCB Mounting.
- ◎ Adapted to the ROHS directive (2002/95/EC).



■ Specifications

Item	Performance Characteristics									
Operating temperature range	-40°C ~ +85°C						-25°C ~ +85°C			
Rated voltage range	10 ~ 400 V						450			
Capacitance tolerance	±20% (120Hz, +20°C)									
Leakage current	$I \leq 0.01CV$ (μA) 1.5mA (Whichever is smaller) 5 (at 20°C, after 5 minutes)									
Dissipation factor (tg δ) (+20°C, 120Hz)	Rated voltage(V)	10	16	25	35	50	63~100	160~250	315~450	
	tg δ	0.80	0.60	0.50	0.40	0.30	0.20	0.15	0.18	
Temperature characteristics (Impedance ratio at 120Hz)	U_R (V)	10	16~35	50~100	160~200	250~400	450			
	Z-25°C/+20°C	5	4	3	3	4	4			
	Z-40°C/+20°C	18	15	10	6	8				
Load life	After applying rated voltage with specified ripple current for 5000 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 +105°C, U_R to be applied for 30 minutes and then resumed 16 hours Capacitance change : ±20% Initial measured value Leakage current : ≤ Initial specified value Dissipation factor : ≤ 2 times Initial specified value									

■ Case size table



Unit: mm

Frequency coefficient

$U(V)$	(Hz)	50	100(120)	1K	10K	100K
≤ 50		0.88	1.00	1.10	1.15	1.15
63~100		0.81	1.00	1.16	1.30	1.33
≥ 160		0.707	1.00	1.20	1.50	1.55

Temperature coefficient

$U(V)$	Temperature (°C)	+40	+55	+70	+85
<160		2.1	1.8	1.5	1.0
≥ 160		1.7	1.5	1.3	1.0

Dimensions

W _V (V) ΦD×L (mm)	10		16		25		35		50		63		80		100	
	Cap	Ripple	Cap	Ripple	Cap	Ripple										
	μF	Arms	μF	Arms	μF	Arms										
22×25	10000	2.5	8200	2.2	5600	2.0	3300	1.8	2200	1.7	1500	1.6	1000	1.3	680	1.1
22×30	15000	3.2	10000	2.6	6800	2.3	3900	2.1	2700	1.9	2200	2.0	1200	1.5	820	1.2
22×35	18000	3.6	12000	2.9	8200	2.6	5600	2.3	3900	2.1	2700	2.2	1800	1.9	1200	1.6
22×40	22000	4.0	15000	3.3	10000	2.9	6800	2.9	4700	2.4	3300	2.3	2200	2.1	1500	1.8
22×45			18000	3.8	12000	3.3					3900	2.5				
22×50			22000	4.2			8200	2.8	5600	2.5			2700	2.5	1800	2.1
25×25	15000	3.1	10000	2.6	6800	2.3	4700	2.2	2700	1.9	2200	2.0	1500	1.7	1000	1.4
25×30	18000	3.6	15000	3.3	10000	2.8	5600	2.3	3900	2.1	2700	2.3	1800	1.9	1200	1.6
25×35	22000	4.1	18000	3.7	12000	3.2	6800	2.6	4700	2.4	3300	2.3	2200	2.2	1500	1.7
25×40			22000	4.2	15000	3.7	8200	2.8	5600	2.5	3900	2.6	2700	2.5	1800	2.0
25×45							10000	3.1	6800	2.8	5600	3.1	3300	2.8	2200	2.2
25×50					18000	4.3	12000	3.5	8200	3.2			3900	3.1	2700	2.6
30×25	22000	4.1	15000	3.4	10000	3.0	6800	2.7	3900	2.4	3300	2.3	2200	2.2	1500	1.8
30×30			22000	4.2	12000	3.4	8200	2.8	5600	2.5	3900	2.6	2700	2.5	1800	2.1
30×35					18000	4.2	10000	3.2	6800	2.8	5600	3.2	3300	2.8	2200	2.3
30×40					22000	4.8	12000	3.5	8200	3.0	6800	3.6	3900	3.2	2700	2.7
30×45							15000	4.1	10000	3.4			4700	3.6	3300	3.0
30×50							18000	4.6	12000	3.8	8200	3.7	5600	3.5	3900	3.4
35×25			22000	4.4	15000	3.9	8200	2.9	5600	2.6	3900	2.7	2700	2.5	1800	2.2
35×30					18000	4.4	12000	3.6	8200	3.0	5600	3.3	3900	3.2	2200	2.5
35×35					22000	5.0	15000	4.1	10000	3.4	6800	3.7	4700	3.6	3300	3.1
35×40							18000	4.7	12000	3.8	8200	3.8	5600	3.5	3900	3.4
35×45							22000	5.3			10000	4.3				
35×50									15000	4.5	12000	4.8	6800	4.1	4700	4.0

W _V (V) ΦD×L (mm)	160		180		200		250		315		350		400		450	
	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple
	μF	Arms	μF	Arms	μF	Arms	μF	Arms	μF	Arms	μF	Arms	μF	Arms	μF	Arms
22×25	330	1.3	270	1.2	220	1.1	180	0.94	100	0.67	82	0.64	68	0.55		
22×30	390	1.5	330	1.4	330	1.4	220	1.1	150	0.85	120	0.82	100	0.70	68	0.57
22×35	560	1.9	470	1.7	390	1.6	270	1.2	180	0.96	150	0.94	120	0.79	100	0.72
22×40	680	2.1	560	1.9	470	1.8	330	1.4	220	1.1	180	1.1	150	0.90	120	0.80
22×45					560	2.0	390	1.6	270	1.2	220	1.2	180	1.0		
22×50	820	2.5	680	2.3			470	1.8					220	1.1	150	0.95
25×25	390	1.5	390	1.5	330	1.4	220	1.1	150	0.85	120	0.81	100	0.70		
25×30	560	1.9	470	1.7	390	1.6	330	1.4	180	0.96	150	0.94	150	0.89	100	0.73
25×35	680	2.2	560	2.0	560	2.0	390	1.6	220	1.1	220	1.2	180	1.0	120	0.83
25×40	820	2.4	680	2.2	680	2.3	470	1.8	270	1.3			220	1.2	150	0.95
25×45	1000	2.7	820	2.5			560	2.0	330	1.4	270	1.4	270	1.3	180	1.1
25×50	1200	3.1	1000	2.9	820	2.6			390	1.6	330	1.6			220	1.2
30×25	560	2.0	470	1.8	470	1.9	330	1.5	220	1.1	180	1.1	150	0.95		
30×30	820	2.5	680	2.3	560	2.1	470	1.8	270	1.3	220	1.2	180	1.1	150	0.98
30×35	1000	2.8	820	2.6	680	2.4	560	2.0	330	1.4	270	1.4	220	1.2	180	1.1
30×40	1200	3.2	1000	2.9	820	2.7	680	2.3	390	1.6	390	1.7	270	1.4	220	1.3
30×45	1500	3.7	1200	3.3	1000	3.1	820	2.6	470	1.8	470	2.0	330	1.6	270	1.4
30×50					1200	3.4			560	2.0			390	1.8		
35×25	820	2.4	680	2.2	560	2.0	470	1.9	270	1.3	220	1.3	180	1.2	180	1.2
35×30	1000	2.7	820	2.5	820	2.5	680	2.4	390	1.6	330	1.6	270	1.6	220	1.3
35×35	1200	3.0	1200	3.1	1000	2.8	820	2.6	470	1.8	390	1.8	330	1.7	270	1.5
35×40	1500	3.5			1200	3.2	1000	3.0	560	2.0	470	2.0	390	1.8		
35×45	1800	3.9	1500	3.6			1200	3.4	680	2.3	560	2.3	470	2.1	390	1.9
35×50	2200	4.5	1800	4.1	1500	3.8					680	2.6	560	2.3	470	2.2

Rated ripple current(A,+85°C,120Hz)

■ Frequency characteristics curve

