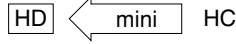


PE-HD Series

Snap-in Type
85°C Miniaturized



Specifications

Items		Specifications							
Rated voltage (V)		160	180	200	220	250	400	420	450
Category temperature range (°C)		-40 to +85					-25 to +85		
Capacitance tolerance (%)		±20 (120Hz/20°C)							
Tangent of loss angle (tanδ) (MAX.) (120Hz/20°C)		0.2							
Leakage current (L.C.) (μA/after 5min) (MAX.)		$3\sqrt{CV}$							
Endurance 85°C 2000hrs. rated voltage applied	ΔC/C	Within ±20% of the initial value							
	tan δ	≤ Twice the initial standard							
	L.C.	≤ The initial standard							

Size List, Maximum Permissible Ripple Current

μF	V φD	160					180				
		φ 20	φ 22	φ 25	φ 30	φ 35	φ 20	φ 22	φ 25	φ 30	φ 35
390		20×25 1.19					20×25 1.84				
470		20×30 1.76	22×25 1.76				20×30 2.08	22×25 2.08			
560		20×30 2.25	22×25 2.25				20×35 2.25	22×30 2.25			
680		20×35 2.50	22×30 2.50	25×25 2.50			20×40 2.50	22×35 2.50	25×25 2.50		
820		20×40 2.75	22×35 2.75	25×30 2.75			20×45 2.75	22×40 2.75	25×30 2.75		
1000			22×40 3.00	25×30 3.00	30×25 3.00			22×45 3.00	25×35 3.00	30×25 3.00	
1200			22×45 3.25	25×35 3.25	30×30 3.25			22×50 3.31	25×40 3.31	30×30 3.31	35×25 3.31
1500				25×45 3.73	30×35 3.73				25×50 3.83	30×35 3.83	35×30 3.83
1800				25×50 4.20	30×35 4.20	35×30 4.20				30×40 4.32	35×35 4.32
2200					30×45 4.78	35×35 4.78				30×50 4.92	35×40 4.92
2700					30×50 5.45	35×40 5.45					35×45 5.52
3300						35×45 5.75					

μF	V φD	200					220				
		φ 20	φ 22	φ 25	φ 30	φ 35	φ 20	φ 22	φ 25	φ 30	φ 35
270							20×25 1.42				
330		20×25 1.44					20×30 1.58	22×25 1.58			
390		20×30 1.68	22×25 1.68				20×35 1.75	22×30 1.75			
470		20×35 1.93	22×30 1.93	25×25 1.93			20×35 1.99	22×30 1.99	25×25 1.99		
560		20×35 2.43	22×30 2.43	25×25 2.43			20×40 2.28	22×35 2.28	25×30 2.28		
680		20×40 2.68	22×35 2.68	25×30 2.68	30×25 2.68			22×40 2.46	25×30 2.46	30×25 2.46	
820			22×40 2.93	25×30 2.93	30×25 2.93			22×45 2.81	25×35 2.81	30×30 2.81	
1000			22×45 3.25	25×35 3.25	30×30 3.25	35×25 3.25			25×45 3.29	30×30 3.29	
1200				25×45 3.50	30×35 3.50	35×30 3.50			25×50 3.60	30×35 3.60	35×30 3.60
1500				25×50 3.87	30×40 3.87	35×30 3.87				30×45 3.92	35×35 3.92
1800					30×45 4.32	35×35 4.32				30×50 4.30	35×40 4.30
2200					30×50 4.92	35×40 4.92					35×50 4.95
2700						35×50 5.45					

μF	V φD	250					400				
		φ 20	φ 22	φ 25	φ 30	φ 35	φ 20	φ 22	φ 25	φ 30	φ 35
82							20×25 0.80				
100							20×30 0.94	22×25 0.94			
120							20×30 1.08	22×25 1.08			
150							20×35 1.21	22×30 1.21	25×25 1.21		
180							20×40 1.45	22×35 1.45	25×25 1.45		
220		20×25 1.23						22×40 1.58	25×30 1.58	30×25 1.58	
270		20×30 1.31	22×25 1.31					22×45 1.67	25×35 1.67	30×25 1.67	
330		20×30 1.75	22×25 1.75					22×50 1.90	25×40 1.90	30×30 1.90	35×25 1.90
390		20×35 1.91	22×30 1.91	25×25 1.91					25×45 2.13	30×35 2.13	35×30 2.13
470		20×40 2.11	22×35 2.11	25×25 2.11					25×50 2.39	30×40 2.39	35×30 2.39
560			22×40 2.25	25×30 2.25	30×25 2.25					30×45 2.69	35×35 2.69
680			22×45 2.50	25×35 2.50	30×30 2.50						35×40 2.96
820				25×40 2.77	30×30 2.77	35×25 2.77					35×50 3.25
1000				25×45 3.32	30×35 3.32	35×30 3.32					
1200					30×40 3.84	35×35 3.84					
1500					30×50 4.25	35×40 4.25					
1800						35×45 4.55					

Ripple Current (A r.m.s./120Hz·85°C)

Case Size: φD×L (mm)

Snap-in Type

PE-HD Series

V μ F	φ D	420					450								
		φ 20	φ 22	φ 25	φ 30	φ 35	φ 20	φ 22	φ 25	φ 30	φ 35				
68							20×25	0.66							
82		20×25	0.83				20×25	0.83							
100		20×30	0.97	22×25	0.97		20×30	0.93	22×25	0.93					
120		20×30	1.08	22×25	1.08		20×35	1.04	22×30	1.04	25×25	1.04			
150		20×35	1.30	22×30	1.30	25×25	1.30	20×40	1.29	22×35	1.29	25×25	1.29		
180		20×40	1.48	22×35	1.48	25×30	1.48			22×40	1.40	25×30	1.40	30×25	1.40
220			22×40	1.65	25×35	1.65	30×25	1.65		22×45	1.66	25×35	1.66	30×25	1.66
270			22×50	1.94	25×35	1.94	30×30	1.94		22×50	1.81	25×40	1.81	30×30	1.81
330				25×45	2.17	30×35	2.17	35×30	2.17			25×45	2.10	30×35	2.10
390				25×50	2.27	30×35	2.27	35×30	2.27					30×40	2.32
470						30×40	2.61	35×35	2.61					30×45	2.66
560						30×50	2.82	35×40	2.82					35×40	2.82
680								35×45	3.11					35×50	3.00

Ripple Current (A r.m.s./120Hz·85°C)

Case Size:φ D×L (mm)

MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)	60 (50)	120	500	1k	10k≤
Coefficient					
160~250V	0.80	1.00	1.20	1.30	1.50
400~450V	0.80	1.00	1.20	1.25	1.40