SANYO

PE-ES Series

Snap-in Type
105℃ Low Profile

Specifications

Items		Specifications
Rated voltage (V)		10 / 16 / 25 / 35 / 50 / 63 / 80 / 100 / 160 / 180 / 200 / 220 / 250 / 315 / 350 / 385 / 400 / 420 / 450
Category temperature range (℃)		−40 to +105 (10 to 100V) ; −25 to +105 (160 to 450V)
Capacitance tolerance (%)		±20 (120Hz/20℃)
Tangent of loss angle (tanδ) (MAX.) (120Hz/20℃)		0.55 / 0.50 / 0.45 / 0.40 / 0.35 / 0.30 / 0.25 / 0.20 / 0.15 / 0.20
Leakage current (L.C.) (μA/after 5min) (MAX.)		$3\sqrt{CV}$
Endurance 105℃ 3000hrs. rated voltage applied.	△C/C	Within ±20% of the initial value
	tan δ	≤ Twice the initial standard
	L.C.	≤ The initial standard

Size List, Maximum Permissible Ripple Current

V / μF	10		16		25		35		50		63		80		100	
330															20×20	0.60
390															20×20	0.71
470													20×20	0.65	22×20	0.78
560													20×20	0.70	25×20	0.95
680											20×20	0.83	22×20	0.84	25×20	1.09
820											22×20	0.99	25×20	1.04	30×20	1.32
1000									20×20	0.87	22×20	1.10	25×20	1.19		
1200									22×20	1.02	25×20	1.20	30×20	1.44		
1500							20×20	0.80	25×20	1.15	30×20	1.47				
1800							22×20	0.94	25×20	1.34	30×20	1.52				
2200					20×20	0.98	22×20	1.04	30×20	1.60						
2700					22×20	1.08	25×20	1.29								
3300			20×20	1.06	22×20	1.29	30×20	1.45								
3900			20×20	1.25	25×20	1.58										
4700	20×20	0.98	22×20	1.38	25×20	1.61										
5600	20×20	1.16	25×20	1.68												
6800	22×20	1.31	25×20	1.80												
8200	25×20	1.59														
10000	25×20	1.77														

Ripple Current (A r.m.s./120Hz・105℃)

Case Size;φ D×L (mm)

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PE-ES
Series

μF \ V	160		180		200		220		250		315		350		385	
39															20×20	0.35
47													20×20	0.38	20×20	0.38
56											20×20	0.41	20×20	0.40	22×20	0.42
68											22×20	0.48	22×20	0.45	25×20	0.50
82											22×20	0.51	25×20	0.54	25×20	0.52
100									20×20	0.59	25×20	0.57	25×20	0.57	30×20	0.61
120					20×20	0.63	20×20	0.60	22×20	0.65	30×20	0.65	30×20	0.65	30×20	0.64
150			20×20	0.66	20×20	0.66	22×20	0.70	25×20	0.74	30×20	0.70	35×20	0.78	35×20	0.80
180	20×20	0.69	22×20	0.80	22×20	0.80	25×20	0.80	25×20	0.77	35×20	0.85	35×20	0.85		
220	22×20	0.81	25×20	0.90	25×20	0.87	25×20	0.85	30×20	0.95	35×20	0.90				
270	25×20	0.98	25×20	0.95	25×20	0.95	30×20	1.02	30×20	1.00						
330	25×20	1.02	30×20	1.15	30×20	1.15	30×20	1.12	35×20	1.16						
390	30×20	1.25	30×20	1.20	30×20	1.20	35×20	1.25								
470	30×20	1.30	35×20	1.36	35×20	1.41										
560	35×20	1.46	35×20	1.43												
680	35×20	1.51														

μF \ V	400		420		450	
27					20×20	0.26
33			20×20	0.30	20×20	0.30
39	20×20	0.34	20×20	0.34	22×20	0.36
47	22×20	0.39	22×20	0.38	25×20	0.41
56	22×20	0.40	25×20	0.45	25×20	0.43
68	25×20	0.49	25×20	0.48	30×20	0.50
82	30×20	0.55	30×20	0.53	30×20	0.53
100	30×20	0.60	30×20	0.58	35×20	0.61
120	35×20	0.75	35×20	0.70		
150	35×20	0.80				

Ripple Current (A r.m.s./120Hz・105℃)

Case Size;φ D×L (mm)

MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)		60 (50)	120	500	1k	10k≦
Coefficient	10～100V	0.90	1.00	1.05	1.10	1.15
	160～250V	0.80	1.00	1.20	1.30	1.50
	315～450V	0.80	1.00	1.20	1.25	1.40