

FEATURES

- One rank smaller case sized than HP series.
- Suited for equipment down sizing.



SPECIFICATIONS

Item	Performance Characteristics	
Operating Temperature Range	-40 to +105°C	-25 to +105°C
Rated Working Voltage Range	160 to 250V	400 to 450V
Nominal Capacitance Range	100 to 3300µF	
Capacitance Tolerance	±20% at 120Hz, +20°C	
Leakage Current	I ≤ 3√CV (µA) after 5 minutes application of rated working voltage at +20°C	
tan δ (120Hz, +20°C)	Working Voltage (V)	160 180 200 220 250 400 420 450
	tan δ (max.)	0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.20
Low Temperature Characteristics	Impedance ratio max. at 120Hz	
	Working Voltage (V)	160~250 400~450
	Z-25°C / Z+20°C	4 8
	Z-40°C / Z+20°C	15 -
High Temperature Loading	Test time : 2,000 hours	Post test requirements at +20°C
	Test temperature : +105°C	Leakage current : ≤Initial specified value
	Test conditions : Rated DC working voltage with rated ripple current	Cap. change : within ±20% of the initial measured value
		tan δ : ≤200% of the initial specified value
Shelf Life	At +105°C no voltage applied after 1,000 hours and then being stabilized at +20°C the capacitors shall meet the following limits	
	Leakage current : ≤Initial specified value	
	Cap. change : within ±15% of the initial measured value	
	tan δ : ≤150% of the initial specified value	
Industrial Standard	JIS C - 5101-4 (IEC 60384-4)	

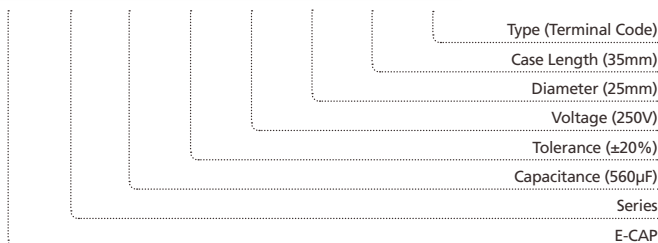
RIPPLE CURRENT MULTIPLIER

Frequency Coefficient

Coefficient	Freq. (Hz)			
Rated Voltage	60	120	1k	10k~50k
160~250V	0.85	1.00	1.32	1.45
400~450V	0.82	1.00	1.30	1.41

PART NUMBER SYSTEM (EXAMPLE : 250V 560µF)

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	GP	567	M	2 E	O	3 5	S W



STANDARD RATINGS

Voltage (Code)		160V (2C)		180V (2P)		200V (2D)		220V (2N)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
330	337							22 x 25	1.26
390	397							22 x 30	1.34
470	477			22 x 25	1.30	22 x 25	1.20	22 x 35	1.48
								25 x 25	1.40
560	567	22 x 25	1.40	22 x 30	1.50	22 x 30	1.48	22 x 35	1.45
						25 x 25	1.48	25 x 30	1.45
680	687	22 x 30	1.50	22 x 35	1.70	22 x 35	1.60	22 x 40	1.65
		25 x 25	1.70	25 x 30	1.70	25 x 30	1.60	25 x 35	1.78
820	827			22 x 40	2.00	22 x 40	1.75	30 x 25	1.65
				25 x 35	2.00	25 x 35	1.75	22 x 50	1.93
		25 x 30	2.00	30 x 25	2.00	30 x 25	1.75	25 x 40	1.93
1000	108	22 x 40	2.10	22 x 45	2.10	22 x 45	2.04	30 x 30	1.85
		25 x 35	2.20	25 x 35	2.05	25 x 40	2.04	35 x 25	1.93
		30 x 25	2.20	30 x 30	2.20	30 x 30	2.04	30 x 45	2.15
1200	128	25 x 40	2.30	22 x 50	2.15	25 x 45	2.30	30 x 35	2.33
				25 x 40	2.15	30 x 35	2.30	35 x 30	2.50
		30 x 30	2.30	30 x 35	2.30	35 x 25	2.30	30 x 40	2.50
1500	158	35 x 25	2.30	35 x 25	2.15	35 x 25	2.30	35 x 35	2.35
		25 x 45	2.50	25 x 50	2.40	25 x 50	2.57	30 x 45	2.55
		30 x 35	2.50	30 x 40	2.50	30 x 40	2.57	35 x 35	2.50
1800	188	35 x 30	2.50	35 x 30	2.35	35 x 30	2.57		
		30 x 40	2.70	30 x 45	2.70	30 x 45	2.68	35 x 40	2.70
		35 x 30	2.55	35 x 35	2.70	35 x 35	2.68		
2200	228	30 x 45	2.90	30 x 50	2.90	30 x 50	2.92	35 x 50	2.95
		35 x 35	2.90	35 x 40	2.90	35 x 40	2.92		
2700	278	35 x 40	3.00	35 x 45	3.00	35 x 45	3.27		
3300	338	35 x 45	3.10	35 x 50	3.10				

Maximum Allowable Ripple Current (Arms) at 105°C 120Hz

Case Size Φ D x L (mm)

STANDARD RATINGS

Voltage (Code)		250V (2E)		400V (2G)		420V (2M)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
100	107							22 x 25	0.64
120	127			22 x 25	0.68	22 x 30	0.81	22 x 30	0.69
								25 x 25	0.69
150	157					22 x 35	0.84	22 x 35	0.72
						25 x 25	0.82	25 x 30	0.79
180	187			22 x 30	0.73	22 x 35	0.85	22 x 40	0.79
				25 x 25	0.73	25 x 30	0.91	25 x 30	0.79
220	227			22 x 35	0.85	22 x 40	0.95	22 x 45	0.87
				25 x 30	0.85	25 x 35	1.05	25 x 35	0.87
270	277			30 x 25	0.95	30 x 25	0.95	30 x 30	0.79
				22 x 40	1.00	22 x 50	1.15	25 x 50	1.20
				25 x 35	1.00	25 x 40	1.25	30 x 35	1.20
330	337			30 x 25	1.00	30 x 30	1.25	35 x 35	1.20
				22 x 50	1.15	25 x 45	1.35	25 x 50	1.20
				25 x 40	1.15	30 x 35	1.42	30 x 35	1.20
				30 x 30	1.15	35 x 30	1.42	35 x 30	1.20
390	397	22 x 30	1.20	25 x 45	1.40	25 x 50	1.45	30 x 40	1.38
		25 x 25	1.20	30 x 35	1.40	30 x 40	1.61	35 x 35	1.38
470	477	22 x 35	1.30	35 x 30	1.55	35 x 30	1.45	35 x 35	1.38
		25 x 30	1.30	25 x 50	1.55	30 x 45	1.86	30 x 45	1.55
560	567	30 x 40	1.55	30 x 40	1.55	35 x 35	1.70	35 x 40	1.55
		35 x 30	1.55	35 x 30	1.55				
		22 x 40	1.40	30 x 45	1.63	35 x 40	1.90	35 x 45	1.70
680	687	25 x 35	1.50	35 x 35	1.63				
		30 x 25	1.40						
		22 x 45	1.50	30 x 50	1.80	35 x 45	2.05	35 x 50	1.91
820	827	25 x 40	1.70	35 x 40	1.80				
		30 x 30	1.70						
		25 x 45	2.00						
1000	108	30 x 35	2.00	35 x 45	2.00				
		35 x 30	2.00						
		25 x 50	2.20						
1200	128	30 x 40	2.20	35 x 50	2.14				
		35 x 30	2.00						
1500	158	30 x 45	2.30						
		35 x 35	2.20						
1800	188	30 x 50	2.30						
		35 x 40	2.30						
		35 x 45	2.50						

Maximum Allowable Ripple Current (Arms) at 105°C 120Hz

Case Size φD x L (mm)

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.