

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)	60	120	1k	10~50k
Rated Voltage	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	
								Type (Terminal Code)
								Case Length (35mm)
								Diameter (25mm)
								Voltage (250V)
								Tolerance (±20%)
								Capacitance (560µF)
								Series
								E-CAP

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
								30 x 25	1.65
820	827	22 x 35	2.00	22 x 40	2.00	22 x 40	1.75	22 x 50	1.93
				25 x 35	2.00	25 x 35	1.75	25 x 40	1.93
		25 x 30	2.00	30 x 25	2.00	30 x 25	1.75	30 x 30	1.85
								35 x 25	1.93
1000	108	22 x 40	2.10	22 x 45	2.10	22 x 45	2.04	25 x 45	2.15
		25 x 35	2.20	25 x 35	2.05	25 x 40	2.04	30 x 35	2.33
		30 x 25	2.20	30 x 30	2.20	30 x 30	2.04	35 x 30	2.33
1200	128	25 x 40	2.30	22 x 50	2.15	25 x 45	2.30	30 x 40	2.50
		30 x 30	2.30	25 x 40	2.15	30 x 35	2.30		
				30 x 35	2.30			35 x 30	2.35
		35 x 25	2.30	35 x 25	2.15	35 x 25	2.30		
1500	158	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
		35 x 30	2.50	35 x 30	2.35	35 x 30	2.57		
1800	188	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 $\phi D \times L$ (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
				22 x 35	0.85	22 x 40	0.95	22 x 45	0.87
220	227			25 x 30	0.85	25 x 35	1.05	25 x 35	0.87
						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
270	277			25 x 35	1.00	25 x 40	1.25	30 x 35	1.20
				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
330	337			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
				25 x 45	1.40	25 x 50	1.45	30 x 40	1.38
390	397	22 x 30	1.20	30 x 35	1.40	30 x 40	1.61	35 x 35	1.38
		25 x 25	1.20	35 x 30	1.55	35 x 30	1.45		
				25 x 50	1.55	30 x 45	1.86	30 x 45	1.55
470	477	22 x 35	1.30	30 x 40	1.55				
		25 x 30	1.30	35 x 30	1.55	35 x 35	1.70	35 x 40	1.55
		22 x 40	1.40	30 x 45	1.63				
560	567	25 x 35	1.50			35 x 40	1.90	35 x 45	1.70
		30 x 25	1.40	35 x 35	1.63				
		22 x 45	1.50	30 x 50	1.80				
680	687	25 x 40	1.70			35 x 45	2.05	35 x 50	1.91
		30 x 30	1.70	35 x 40	1.80				
		25 x 45	2.00						
820	827	30 x 35	2.00	35 x 45	2.00				
		35 x 30	2.00						
		25 x 50	2.20						
1000	108	30 x 40	2.20	35 x 50	2.14				
		35 x 30	2.00						
		30 x 45	2.30						
1200	128	35 x 35	2.20						
		30 x 50	2.30						
1500	158	35 x 40	2.30						
1800	188	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.