

**FEATURES**

- High ripple current and high reliability.
- Two or three dimensions with same ratings.
- Aluminum case designed explosion-proof vent.
- Best for ballast application.
- Load life with ripple current : 105°C 7,000 hours.



**SPECIFICATIONS**

Item	Performance Characteristics								
Operating Temperature Range	-40 to +105°C				-25 to +105°C				
Rated Working Voltage Range	160 to 250V				315 to 450V				
Nominal Capacitance Range	39 to 2200µF								
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	200	250	315	350	400	450	
	tan δ (max.)	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			315~450				
	Z-25°C / Z+20°C	3			8				
High Temperature Loading	Z-40°C / Z+20°C	15							
	Test time : 7,000 hours				Post test requirements at +20°C				
Shelf Life	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 : ≤250% of the initial specified value				
Industrial Standard	JIS C - 5101-4 (IEC 60384-4)								

**RIPPLE CURRENT MULTIPLIER**

**Frequency Coefficient**

Coefficient Rated Voltage	Freq. (Hz)	60	120	1k	10k~50k
		160~250V	0.80	1.00	1.25
315~450V	0.80	1.00	1.30	1.47	

**PART NUMBER SYSTEM (EXAMPLE : 400V 100µF)**

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	SP	107	M	2G	O	30	SW

Type (Terminal Code)  
 Case Length (30mm)  
 Diameter (25mm)  
 Voltage (400V)  
 Tolerance (±20%)  
 Capacitance (100µF)  
 Series  
 E-CAP

**STANDARD RATINGS**

Voltage (Code)		160V (2C)		200V (2D)		250V (2E)		315V (2F)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
82	826							22 x 25	0.64
100	107							22 x 30	0.69
120	127							22 x 30	0.75
								25 x 25	0.75
150	157							22 x 35	0.82
								25 x 30	0.82
								30 x 25	0.82
180	187					22 x 30	0.90	22 x 40	0.90
						25 x 25	0.90	25 x 35	0.90
220	227							30 x 25	0.90
				22 x 25	1.00	22 x 30	1.00	22 x 45	1.00
						25 x 25	1.00	25 x 40	1.00
270	277	22 x 25	1.10	22 x 30	1.10	22 x 35	1.10	25 x 45	1.10
				25 x 25	1.10	25 x 30	1.10	30 x 35	1.10
						30 x 25	1.10	35 x 30	1.10
330	337	22 x 30	1.20	22 x 30	1.20	22 x 40	1.20	25 x 50	1.20
				25 x 25	1.20	25 x 35	1.20	30 x 40	1.20
						30 x 25	1.20	35 x 30	1.20
390	397	22 x 30	1.30	22 x 35	1.30	22 x 45	1.30	30 x 45	1.30
				25 x 25	1.30	25 x 30	1.30	25 x 35	1.30
						30 x 25	1.30	30 x 30	1.30
470	477	22 x 35	1.40	22 x 40	1.40	25 x 45	1.40	30 x 50	1.40
				25 x 30	1.40	25 x 35	1.40	30 x 35	1.40
						30 x 30	1.40	35 x 30	1.40
560	567	22 x 40	1.50	22 x 45	1.50	25 x 50	1.50	35 x 45	1.50
				25 x 30	1.50	25 x 35	1.50		
				30 x 25	1.50	30 x 30	1.50		
680	687	22 x 45	1.70	25 x 40	1.70	30 x 45	1.70	35 x 50	1.70
				25 x 35	1.70	25 x 40	1.70		
				30 x 30	1.70	30 x 35	1.70		
820	827	25 x 40	2.00	25 x 50	2.00	30 x 50	2.00		
				30 x 40	2.00	30 x 40	2.00		
				30 x 30	2.00	35 x 30	2.00		
1000	108	25 x 45	2.20	30 x 45	2.20	35 x 45	2.20		
		30 x 35	2.20	35 x 35	2.20				
1200	128	25 x 50	2.30	30 x 50	2.30	35 x 50	2.30		
		30 x 40	2.30	35 x 40	2.30				
		35 x 35	2.30						
1500	158	30 x 45	2.50	35 x 50	2.50				
		35 x 35	2.50						
1800	188	30 x 50	2.70						
		35 x 40	2.70						
2200	228	35 x 50	2.90						

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.

**STANDARD RATINGS**

Voltage (Code)		350V (2V)		400V (2G)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
39	396					22 x 25	0.37
47	476					22 x 30	0.40
56	566					22 x 35	0.47
						25 x 25	0.47
68	686					22 x 40	0.53
						25 x 30	0.53
82	826	22 x 25	0.64	22 x 35	0.64	22 x 45	0.56
				25 x 25	0.64	25 x 35	0.56
100	107	22 x 30	0.69	22 x 35	0.69	22 x 50	0.64
		25 x 25	0.69	25 x 30	0.69	25 x 40	0.64
120	127	22 x 35	0.75	22 x 40	0.75	30 x 30	0.64
		25 x 30	0.75	25 x 35	0.75	25 x 45	0.72
150	157	22 x 40	0.82	22 x 50	0.82	30 x 30	0.72
		25 x 30	0.82	25 x 40	0.82	35 x 30	0.79
		30 x 25	0.82	30 x 30	0.82	25 x 50	0.79
180	187	22 x 45	0.90	25 x 45	0.90	30 x 40	0.79
		25 x 35	0.90	30 x 35	0.90	35 x 30	0.79
		30 x 30	0.90	35 x 25	0.90	30 x 45	0.87
220	227	22 x 50	1.00	25 x 45	0.90	35 x 35	0.87
		25 x 40	1.00	25 x 50	1.00	30 x 50	1.00
		30 x 30	1.00	30 x 40	1.00	35 x 40	1.00
270	277	25 x 50	1.10	30 x 40	1.00	35 x 40	1.00
		30 x 35	1.10	30 x 45	1.10	35 x 45	1.19
		35 x 30	1.10	35 x 35	1.10		
330	337	30 x 45	1.20	30 x 45	1.10		
		35 x 35	1.20	30 x 50	1.20	35 x 50	1.38
390	397	30 x 50	1.30	35 x 40	1.20		
		35 x 40	1.30	35 x 45	1.30		
470	477	35 x 40	1.40	35 x 50	1.40		
560	567	35 x 50	1.50				

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

Case Size ΦD x L (mm)