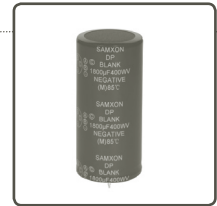


FEATURES

- High ripple current and high reliability.
- Low equivalent series resistance ESR.
- Different case sizes available for each capacitance value.
- Load life with ripple current: 5,000 hours.



SPECIFICATIONS

Item	Performance Characteristics					
Operating Temperature Range	-40 to +85°C			-25 to +85°C		
Rated Working Voltage Range	160 to 250V			385 to 450V		
Nominal Capacitance Range	47 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)	160~420	450			
	tan δ (max.)	0.15	0.20			
Low Temperature Characteristics	Impedance ratio max. at 120Hz					
	Working Voltage (V)	160	200	250	385	400~450
	Z-25°C / Z+20°C	3	3	3	5	8
	Z-40°C / Z+20°C	15	—	—	—	—
High Temperature Loading	Test time : 5,000 hours			Post test requirements at +20°C		
	Test temperature : +85°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 +85°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		0.80	1.00	1.15	1.47
385~450V		0.80	1.00	1.15	1.47

PART NUMBER SYSTEM (EXAMPLE : 400V 330µF)

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	DP	337	M	2G	P	45	SW

Type (Terminal Code)

Case Length (45mm)

Diameter (30mm)

Voltage (400V)

Tolerance (±20%)

Capacitance (330µF)

Series

E-CAP

STANDARD RATINGS

Voltage (Code)		160V (2C)			200V (2D)			250V (2E)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
150	157							22 x 25	800	0.91
220	227	22 x 25	730	1.10	22 x 25	490	1.10	22 x 30	500	1.20
								25 x 25	490	1.20
330	337	22 x 30	490	1.40	22 x 30	330	1.40	22 x 40	330	1.60
					25 x 25	330	1.50	25 x 30	330	1.60
470	477	22 x 35	350	1.80	22 x 40	240	1.90	25 x 40	240	2.10
					30 x 25	350	1.90	30 x 30	240	2.00
680	687	25 x 35	240	2.40	25 x 40	160	2.50	30 x 40	160	2.70
					30 x 30	160	2.40			
1000	108	30 x 35	160	3.10	30 x 40	120	3.30	35 x 40	120	3.60
					35 x 35	120	3.50			
1500	158	30 x 45	120	4.20	35 x 45	80	4.60			
2200	228	35 x 50	80	5.80						

Maximum Allowable Ripple Current (Arms) at 85°C 120Hz

Case Size ΦD x L (mm)

Maximum Impedance (mΩ) at 20°C 20kHz

Voltage (Code)		385V (2Y)			400V (2G)			420V (2M)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
68	686	22 x 25	1570	0.61	22 x 25	1570	0.61			
100	107	22 x 30	1070	0.79	22 x 30	1070	0.79	22 x 30	1600	0.79
		25 x 25	1070	0.80	25 x 25	1070	0.80	25 x 25	1600	0.80
120	127				22 x 35	890	0.92	22 x 30	1330	0.94
150	157	22 x 40	720	1.10	22 x 40	720	1.10	22 x 40	1070	1.08
		25 x 30	720	1.00	30 x 25	720	1.10	25 x 35	1070	1.11
180	187				30 x 30	600	1.20	25 x 35	890	1.21
								30 x 30	890	1.26
220	227	25 x 40	490	1.40	25 x 40	490	1.40	25 x 40	730	1.41
		30 x 30	490	1.40	30 x 35	490	1.50	30 x 35	730	1.46
270	277				30 x 35	400	1.60	30 x 35	590	1.62
								35 x 30	590	1.71
330	337	30 x 40	330	1.90	30 x 45	330	2.00	30 x 45	490	1.96
								35 x 35	490	1.98
390	397				30 x 50	280	2.20	30 x 50	410	2.22
470	477	35 x 40	240	2.50	35 x 45	240	2.60	35 x 45	340	2.58
560	567	35 x 45	200	2.80	35 x 50	200	2.90	35 x 50	290	2.93

Maximum Allowable Ripple Current (Arms) at 85°C 120Hz

Case Size ΦD x L (mm)

Maximum Impedance (mΩ) at 20°C 20kHz

Voltage (Code)		450V (2W)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current
47	476	22 x 25	3400	0.51
68	686	22 x 30	2350	0.65
		25 x 25	2350	0.66
		22 x 40	1600	0.88
100	107	25 x 30	1600	0.86
		30 x 25	1600	0.90
150	157	25 x 40	1070	1.20
		30 x 30	1070	1.10
180	187	30 x 35	890	1.30
220	227	30 x 40	730	1.50
270	277	30 x 45	600	1.80
330	337	35 x 40	490	2.10
470	477	35 x 50	350	2.70

Maximum Allowable Ripple Current (Arms) at 85°C 120Hz

Case Size ΦD x L (mm)

Maximum Impedance (mΩ) at 20°C 20kHz

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.