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SAMXON®

+105°C, Standard(標準品)

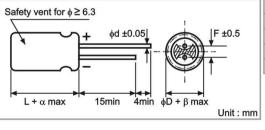
FEATURES

- 1. Rated working voltage range 6.3 to 100V DC/160 to 450V DC at operation temperature range -40 to +105°C/-25 to +105°C.
- 2. This series is for communication equipments, switching power supply, industrial measuring instruments, automotive electric products, etc.



tem	Performance Charact	eristics								
Operating Temperature Range	-40 to +105°C	40 to +105°C -25 to +105°C								
Rated Working Voltage Range	6.3 to 100V	5.3 to 100V 160 to 450V								
Nominal Capacitance Range	0.1 to 33000μF	·								
Capacitance Tolerance	±20% (120Hz, +20°C)									
Leakage Current	I ≤ 0.01CV or 3(μA) wh	ichever is	greater		1≤ 0.03C	V +40(µA)				
-oanage oan on	after 2 minutes applica		•	Itage at +2		,(hm.)				
Dissipation Factor	Working Voltage (V)	6.3	10	16	25	35	50	63	100	
tan δ (120Hz, +20°C)	tan δ (max.)	0.26	0.22	0.18	0.16	0.14	0.12	0.10	0.08	
	Working Voltage (V)	160	200	220	250	350	400	420	450	
	tan δ (max.)	0.20	0.20	0.20	0.20	0.24	0.24	0.24	0.24	
	For capacitance value	> 1000μF,	add 0.02 per	another 10	000μF					
ow Temperature Characteristics	Impedance ratio max.	at 120Hz					0.12 0.10 0.0 400 420 45 0.24 0.24 0.2 50 63 10 2 2 2 3 3 3 3 400 420 45 6 6 1 0°C ecified value % of initial measured value finitial specified value +105°C maximum permissible ripple			
	Working Voltage (V)	6.3	10	16	25	35	50	63	100	
	Z-25°C / Z+20°C	5	4	3	2	2	2	2	2	
	Z-40°C / Z+20°C	10	8	6	4	3	3	3	3	
	Working Voltage (V)	160	200	220	250	350	400	420	450	
	Z-25°C / Z+20°C	3	3	3	4	4	6	6	15	
	For capacitance value	> 1000μF,	Add 0.5 per a							
ligh Temperature Loading	Test conditions			Pos	st test requir	ements at +2	20°C			
	Duration : φD ≤	≤8 ≥	10					е		
	Load life 10	000h 200	00h	Ca	p. change	: within ±20	% of initial r	neasured va	alue	
	Ambient temp. : +105	5°C		tan	δ	:≤200% o	f initial spec	fied value		
	Applied voltage : DC v	oltage wit	h maximum p	ermissible	ripple currer	nt specified a	t +105°C			
			•			•	maximum p	ermissible r	ipple	
	curre	ent should	be equal to r	ated DC wo	orking voltag	e).				
Shelf Life	Test conditions			Pos	Post test requirements at +20°C					
) hours		Sa	me limits for	high tempera	ature loading	g.		
	Ambient temp. : +105	5°C								
	Applied voltage : (Non									

CASE SIZE TABLE



φD	5	6.3	8	10	12.5	16	18	22	25
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	12.5
φd		0.5		0	0.6		8.0		1.0
α		(L	< 20) 1	.5	(L	≥ 20) 2.	0		
β		(E	< 20) 0	.5	(D	≥ 20) 1.	.0		

RIPPLE CURRENT MULTIPLIER

Temperature Coefficient									
Temperature(°C)	~ 55	60	70	85	105				
Factor	2.23	2.17	2.00	1.75	1.00				

Frequency Co	pefficient					
Rated Voltage(V	Cap(μF) Freq.(Hz)	50	120	300	1K	10K~
	~ 47	0.75	1.00	1.35	1.57	2.00
6.3 ~ 100	100 ~ 470	0.80	1.00	1.23	1.34	1.50
	≥ 560	0.85	1.00	1.10	1.13	1.15
100 150	0.47 ~ 220	0.80	1.00	1.25	1.40	1.60
160 ~ 450	≥ 270	0.90	1.00	1.10	1.13	1.15

+105°C, Standard(標準品)

Voltag	je (Code)	6.3	V (0J)	10\	/ (1A)	16\	/ (1C)	25\	/ (1E)
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Curren
0.1	104	05001696/00000 2000033111110000	3. 3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.					300 10000000000000000000000000000000000	
0.15	154								
0.22	224								
0.33	334								
0.47	474								
1	105								
2.2	225								
3.3	335								
4.7	475							5 x 11	26
10	106					5 x 11	35	5 x 11	38
22	226			5 x 11	49	5 x 11	54	5 x 11	57
33	336	5 x 11	54	5 x 11	60	5 x 11	64	5 x 11	75
47	476	5 x 11	65	5 x 11	70	5 x 11	80	5 x 11	84
68	686	5 x 11	70	5 x 11	75	5 x 11	90	5 x 11	92
100	107	5 x 11	95	5 x 11	105	5 x 11	125	6.3 x 11	159
220	227	5 x 11	153	6.3 x 11	193	6.3 x 11	213	8 x 12	285
330	337	6.3 x 11	216	6.3 x 11	239	8 x 12	315	8 x 12	340
470	477	6.3 x 11	258	6.3 x 11	285	8 x 12	366	10 x 12.5	471
680	687	8 x 12	365	10 x 12.5	472	10 x 12.5	480	10 x 16	620
1000	108	8 x 12	443	10 x 12.5	571	10 x 16	680	10 x 20	821
2200	228	10 x 20	817	10 x 20	886	12.5 x 20	1108	12.5 x 25	1297
3300	338	10 x 20	1032	12.5 x 20	1205	12.5 x 25	1389	16 x 25	1646
4700	478	12.5 x 20	1280	12.5 x 25	1492	16 x 25	1740	16 x 30	2012
6800	688	12.5 x 25	1554	16 x 25	1824	16 x 30	2081	16 x 40	2452
10000	109	16 x 25	1897	16 x 30	1980	16 x 40	2527	18 x 35	2500
15000	159	16 x 35	2344	16 x 40	2180	18 x 35	2600		
00000	000	18 x 40	2500	40 05	0000				
22000	229	18 x 35	2400	18 x 35	2268				
33000	339	18 x 40	2555						

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

Case Size ∮D x L(mm)

Voltag	e (Code)	35\	/ (1V)	50\	/ (1H)	63\	/ (1J)	100	V (2A)
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Curre
0.1	104			5 x 11	1				
0.15	154			5 x 11	1.5				
0.22	224			5 x 11	3				
0.33	334			5 x 11	4				
0.47	474			5 x 11	7			5 x 11	10
1	105			5 x 11	13			5 x 11	16
2.2	225			5 x 11	20			5 x 11	23
3.3	335			5 x 11	30			5 x 11	34
4.7	475	5 x 11	28	5 x 11	37	5 x 11	40	5 x 11	40
10	106	5 x 11	41	5 x 11	54	5 x 11	59	6.3 x 11	61
22	226	5 x 11	67	5 x 11	79	6.3 x 11	87	8 x 12	110
33	336	5 x 11	80	6.3 x 11	115	6.3 x 11	122	8 x 12	144
47	470	5 x 11	101	0.0 44	400	0.0 44	440	40 40 5	400
47	476	6.3 x 11	120	6.3 x 11	133	6.3 x 11	146	10 x 12.5	199
68	686					8 x 12	155	10 x 12.5	220
100	107	6.3 x 11	168	8 x 12	229	10 x 12.5	251	10 x 20	349
220	227	8 x 12	294	10 x 16	509	10 x 20	504	12.5 x 25	662
330	337	10 x 12.5	419	10 x 20	650	12.5 x 20	688	12.5 x 25	800
470	477	10 x 16	547	12.5 x 20	801	12.5 x 25	897	16 x 30	1072
680	687	10 x 20	682	12.5 x 20	923	12.5 x 25	1160	18 x 35	1125
1000	108	12.5 x 20	1023	12.5 x 25	1287	16 x 30	1568	18 x 40	2020
2200	228	16 x 25	1497	16 x 35	1884	18 x 40	1890		
3300	338	16 x 30	1808	18 x 40	2300				
4700	478	18 x 35	2335						
6800	688	18 x 40	2400						

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

Case Size ∮D x L(mm)

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Voltag	je (Code)	160	V (2C)	200	V (2D)	220	V (2N)	250	V (2E)
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Curren
0.47	474							6.3 x 11	8
1	105							6.3 x 11	17
2.2	225							6.3 x 11	27
3.3	335			6.3 x 11	30	6.3 x 11	30	6.3 x 11	35
4.7	475	6.3 x 11	41	6.3 x 11	40	8 x 12	40	8 x 12	45
10	106	8 x 12	60	10 x 12.5	72	10 x 12.5	70	10 x 12.5	75
22	226	10 x 16	110	10 x 20	125	10 x 20	125	10 x 20	130
33	336	10 x 20	156	10 x 20	165	12.5 x 20	165	12.5 x 20	184
47	476	10 x 20	195	12.5 x 20	220	12.5 x 20	220	12.5 x 25	238
68	686	12.5 x 20	250	12.5 x 25	250	12.5 x 25	245	16 x 25	270
82	826	12.5 x 25	310	10 x 30	320	12.5 x 30	280	16 x 30	380
100	107	12.5 x 25	360	16 x 25	386	16 x 25	335	16 x 30	422
150	157	12.5 x 30	380	12.5 x 30	496	16 x 30	365	18 x 30	440
180	187	12.5 x 35	420	12.5 x 35	560	16 x 35	500	18 x 35	469
220	227	16 x 30	680	16 x 35	580	16 x 40	615	18 x 35	485
220	221	10 X 30	000	12.5 x 40	640	10 X 40	615	10 X 33	400
270	277	16 x 30	728	16 x 30	696				
330	337	18 x 35	830	16 x 35	808				
330	337	10 X 35	630	18 x 30	808				
390	397	18 x 35	850	16 x 40	904				
390	391	16 X 35	650	18 x 35	904				
470	477	18 x 40	880	18 x 40	1016				
560	567	18 x 45	925	18 x 45	1112				

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

Case Size $\phi D \times L(mm)$

Voltag	e (Code)	350	V (2V)	400	V (2G)	420	√ (2M)	450\	/ (2W)
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Currer
0.47	474	6.3 x 11	8						
1	105	6.3 x 11	18	6.3 x 11	19	6.3 x 11	15	6.3 x 11	16
2.2	225	6.3 x 11	25	8 x 12	30	8 x 12	29	10 x 12.5	28
3.3	335	8 x 12	40	10 x 12.5	41	10 x 12.5	40	10 x 12.5	33
4.7	475	10 x 12.5	50	10 x 16	52	10 x 16	52	10 x 16	42
10	106	10 x 20	80	10 x 20	86	10 x 20	85	12.5 x 20	84
18	186	12.5 x 20	100	12.5 x 20	105	12.5 x 25	124	10 x 30	108
00	000	40.5 00	450	40.505	400	10 x 30	160	40 05	454
22	226	12.5 x 20	150	12.5 x 25	163	12.5 x 25	140	16 x 25	151
27	276	12.5 x 25	177	10 x 30	192	12.5 x 25	170	12.5 x 30	164
00	000	4005	000	40 05	000	40 05	000	12.5 x 30 16 x 30	224
33	336	16 x 25	200	16 x 25	222	16 x 25	200		257
39	396	16 x 25	258	16 x 25	251	12.5 x 30	248	12.5 x 35	256
47	470	40.05	005	12.5 x 30	266	12.5 x 35	288	12.5 x 40	304
47	476	16 x 25	265	16 x 30	290	16 x 35	270	16 x 35	254
56	566	16 x 30	280	12.5 x 35	336	12.5 x 40	344	16 x 30	352
68	686	16 x 30	288	12.5 x 40	384	16 x 30	408	18 x 35	392
82	826	18 x 30	372	18 x 30	280	16 x 35	456	16x40/18x30	440
400	407	40.05	400	16 x 30	310	16 x 40	488	18 x 35	470
100	107	18 x 35	460	18 x 35	464	18 x 30	488	18 x 40	520
120	127			18 x 30	536	18 x 35	528	18 x 40	592
150	157			18 x 35	616	18 x 40	568	18 x 45	640
180	187			18 x 40	704				
220	227			18 x 45	800				

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

Case Size $\phi D \times L(mm)$