

ALUMINUM ELECTROLYTIC CAPACITORS



SJ Series

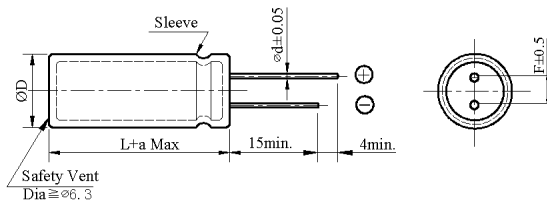
- Counter plan product for safety
- Load life 10,000 hours at 105°C



◆ SPECIFICATIONS

Item	Performance Characteristics			
Category Temperature Range	-40~ +105°C			
Working Voltage Range	160~ 450dc			
Capacitance Range	22 ~680 µF			
Capacitance Tolerance	±20% (at 25°C and 120Hz)			
Dissipation Factor (tanδ) (at 25°C, 120Hz)	Rated Voltage (V)	160~250	400~450	
	tanδ(Max)	0.12	0.15	
Leakage Current	I=0.02CV or 3000 µA whichever is smaller I : Leakage current (µA) C : Rated capacitance (µF) V : Rated voltage (V) Impress the rated voltage for 2 minutes			
Low Temperature Characteristics Impedance Ratio(MAX)	Rated voltage (V)	160~250	400	420 ~ 450
	Z(-40°C)/Z(+20°C)	10	8	6
Endurance	The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage with the rated ripple current is applied for 10,000 hours at 105°C.			
	Capacitance change	≦ ±20% of the initial value		
	Dissipation factor(tanδ)	≦ 200% of the specified value		
	Leakage current	≦ specified value		
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 25°C after exposing them for 1,000 hours at 105°C without voltage applied.			
	Capacitance change	≦ ±20% of the initial value		
	Dissipation factor(tanδ)	≦ 200% of the specified value		
	Leakage current	≦ 200% of the specified value		
Others	Conforms to JIS-C-5101-4 (1998)			

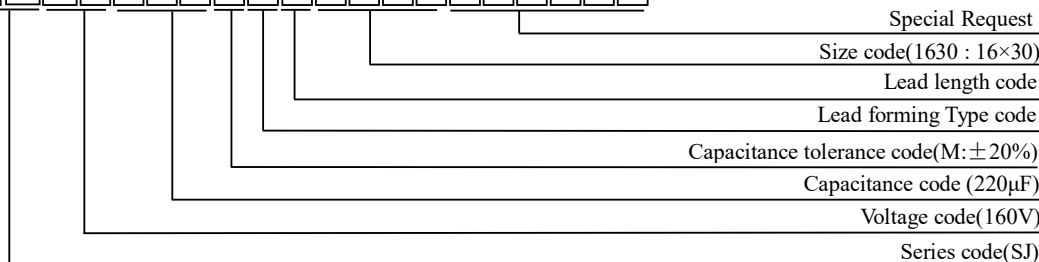
◆ DIMENSIONS (mm)



ΦD	10	12.5	16	18
ΦD	ΦD +0.5 Max			
Φd	0.6	0.6	0.8	0.8
F	5.0	5.0	7.5	7.5
a	L+1.5 Max	≦ 35 L+1.5Max ≧ 40 L+2.0 Max	L+1.5 Max	

◆ PART NUMBER SYSTEM(Example : 160V 220µF)

S J 2 C 2 2 1 M N N 1 6 3 0



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STANDARD RATINGS

WV (Vdc)	Cap (µF)	Case Size (mm) ΦD×L	Rated Ripple current (mA rms/ 105°C, 120Hz)	Part Number	
160 (2C)	100	10×35	445	SJ2C101MNN1035	
	120	10×40	525	SJ2C121MNN1040	
	150	10×50	610	SJ2C151MNN1050	
	150	12.5×35	595	SJ2C151MNN1235W	
	180	12.5×40	670	SJ2C181MNN1240W	
	220	12.5×45	785	SJ2C221MNN1245W	
	220	16×30	760	SJ2C221MNN1630	
	270	12.5×50	905	SJ2C271MNN1250W	
	270	16×35.5	880	SJ2C271MNN16P1	
	270	18×30	870	SJ2C271MNN1830	
	330	16×40	960	SJ2C331MNN1640	
	330	18×31.5	945	SJ2C331MNN18N3	
	470	18×40	1270	SJ2C471MNN1840	
	560	18×45	1400	SJ2C561MNN1845	
680	18×50	1520	SJ2C681MNN1850		
200 (2D)	82	10×40	460	SJ2D820MNN1040	
	100	10×45	490	SJ2D101MNN1045	
	120	10×50	555	SJ2D121MNN1050	
	150	12.5×40	650	SJ2D151MNN1240W	
	180	12.5×45	745	SJ2D181MNN1245W	
	220	12.5×50	900	SJ2D221MNN1250W	
	220	16×35.5	885	SJ2D221MNN16P1	
	270	16×40	910	SJ2D271MNN1640	
	270	18×31.5	890	SJ2D271MNN18N3	
	330	16×45	1210	SJ2D331MNN1645	
	330	18×35.5	1285	SJ2D331MNN18P1	
	470	18×45	1450	SJ2D471MNN1845	
	560	18×50	1550	SJ2D561MNN1850	
	220 (2P)	68	10×40	425	SJ2P680MNN1040
82		10×45	480	SJ2P820MNN1045	
100		10×50	545	SJ2P101MNN1050	
120		12.5×40	580	SJ2P121MNN1240W	
150		12.5×45	670	SJ2P151MNN1245W	
180		12.5×50	765	SJ2P181MNN1250W	
220		16×40	930	SJ2P221MNN1640	
270		16×45	990	SJ2P271MNN1645	
270		18×35.5	975	SJ2P271MNN18P1	
330		16×50	1270	SJ2P331MNN1650	
330		18×40	1300	SJ2P331MNN1840	
470		18×50	1475	SJ2P471MNN1850	
250 (2E)		68	10×45	440	SJ2E680MNN1045
		82	10×50	505	SJ2E820MNN1050
	100	12.5×40	570	SJ2E101MNN1240W	
	120	12.5×50	610	SJ2E121MNN1250W	
	120	16×30	590	SJ2E121MNN1630	
	150	16×35.5	735	SJ2E151MNN16P1	

WV (Vdc)	Cap (µF)	Case Size (mm) ΦD×L	Rated Ripple current (mA rms/ 105°C, 120Hz)	Part Number
250 (2E)	180	16×40	820	SJ2E181MNN1640
	220	16×50	1050	SJ2E221MNN1650
	220	18×40	1010	SJ2E221MNN1840
	270	18×45	1120	SJ2E271MNN1845
	330	18×50	1380	SJ2E331MNN1850
	400 (2G)	27	10×35	280
33		10×40	295	SJ2G330MNN1040
39		10×45	325	SJ2G390MNN1045
47		10×50	370	SJ2G470MNN1050
47		12.5×35	360	SJ2G470MNN1235W
56		12.5×40	400	SJ2G560MNN1240W
68		12.5×45	475	SJ2G680MNN1245W
82		12.5×50	580	SJ2G820MNN1250W
82		16×35.5	575	SJ2G820MNN16P1
100		16×40	655	SJ2G101MNN1640
100		18×31.5	635	SJ2G101MNN18N3
120		16×45	780	SJ2G121MNN1645
120		18×40	765	SJ2G121MNN1840
150		18×45	890	SJ2G151MNN1845
180	18×50	1000	SJ2G181MNN1850	
420 (2S)	22	10×35	240	SJ2S220MNN1035
	27	10×40	285	SJ2S270MNN1040
	33	10×45	320	SJ2S330MNN1045
	39	10×50	345	SJ2S390MNN1050
	47	12.5×40	385	SJ2S470MNN1240W
	56	12.5×45	420	SJ2S560MNN1245W
	68	12.5×50	520	SJ2S680MNN1250W
	68	16×35.5	515	SJ2S680MNN16P1
	82	16×40	620	SJ2S820MNN1640
	100	16×45	730	SJ2S101MNN1645
	100	18×35.5	715	SJ2S101MNN18P1
	120	18×45	800	SJ2S121MNN1845
	150	18×50	955	SJ2S151MNN1850
	450 (2W)	22	10×40	260
27		10×45	310	SJ2W270MNN1045
33		10×50	340	SJ2W330MNN1050
33		12.5×35	330	SJ2W330MNN1235W
39		12.5×40	365	SJ2W390MNN1240W
47		12.5×45	440	SJ2W470MNN1245W
56		12.5×50	510	SJ2W560MNN1250W
68		16×40	630	SJ2W680MNN1640
82		16×45	690	SJ2W820MNN1645
82		18×35.5	670	SJ2W820MNN18P1
100		18×40	800	SJ2W101MNN1840
120		18×50	880	SJ2W121MNN1850

RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Vdc	Frequency (Hz)				
	50/60	120	1K	10K	100K
160 ~ 450	0.80	1.00	1.30	1.40	1.50