

Leaded Aluminium Electrolytic Capacitors **multicomp** PRO



Feature

- 105°C 2000 hours, standard product

Specifications:

Items	Characteristics											
Capacitance Tolerance	± 20% (120Hz, 20°C)											
Operating Temperature Range	-40°C to +105°C						-40°C to +105°C			-25°C to +105°C		
Rated Voltage Range	6.3~100V DC						160~250V DC			350~450V DC		
Leakage Current	I ≤ 0.01CV or 3 (µA), Which is greater. (After 2 minutes application of working voltage)						I ≤ 0.03CV +20 (µA), (After 3 minutes application of working voltage, at 20°C)					
Dissipation Factor (tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C											
	Rated Voltage(V)	6.3	10	16	25	35	50	63	80	100	160~250	350~450
	tan δ(Max)	0.24	0.2	0.16	0.15	0.12	0.1	0.09	0.08	0.08	0.2	0.25
When nominal capacitance over 1000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF												
Low Temperature Stability Impedance Ratio(Max)	Measurement Frequency:120Hz.											
	Rated Voltage(V)	6.3	10	16	25	35	50~100	160~250	350~400	450		
	Z(-25°C) /Z(20°C)	5	4	3	2	2	2	3	6	15		
	Z(-40°C) /Z(20°C)	10	8	6	4	3	3	4	-	-		
Load Life	2000 hours,with application of working voltage at 105°C											
	Capacitance Change	Within ±25% of Initial Value										
	tan δ	200% or less of Initial Specified Value										
	Leakage Current	Initial Specified Value or less										
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.											
	Capacitance Change	Within ±20% of Initial Value										
	tan δ	200% or less of Initial Specified Value										
	Leakage Current	Initial Specified Value or less										
Standards	JIS C 5141 and JIS C 5102											

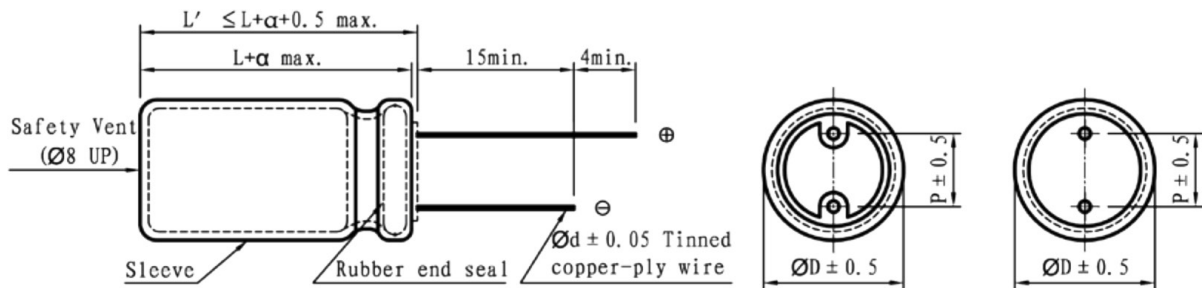
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Frequency Coefficient of Permissible Ripple Current

Rated Voltage (V)	Capacitance (µF)	Frequency (Hz)			
		50	120	1K	≧20K
≧100	<100	0.75	1	1.57	2
	100~470	0.8	1	1.34	1.5
	>470	0.85	1	1.1	1.15
≧160	0.47~470	0.85	1	1.4	1.5

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

Dimensions: (mm)



ΦD	5	6.3	8	10	13	14.5	16	18	22	25
P	2	2.5	3.5	5	5	7.5	7.5	7.5	10	12.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8	0.8	1.0

α	(L<16) 1 L≧16) 2
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Standard Ratings

D×L(mm) ; R.C.(mA rms) at 105°C, 120Hz

Cap (µF)	V (Code)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)	
		Item	D×L	R.C.	D×L	R.C.	D×L	R.C.	D×L	R.C.	D×L	R.C.	D×L	R.C.	D×L
0.1~0.47												05×11	11	05×11	12
1												05×11	15	05×11	17
2.2												05×11	24	05×11	25
3.3												05×11	30	05×11	31
4.7								05×11	30	05×11	31	05×11	36	05×11	37
6.8								05×11	35	05×11	37	05×11	46	05×11	51
10						05×11	42	05×11	43	05×11	47	05×11	54	05×11	58
22		05×11	54	05×11	59	05×11	63	05×11	65	05×11	75	05×11	83	6.3×11	109
33		05×11	66	05×11	77	05×11	79	05×11	83	05×11	91	05×11	97	08×12	121
47		05×11	78	05×11	87	05×11	94	05×11	97	6.3×11	116	6.3×11	145	08×12	163
56		05×11	90	05×11	100	05×11	105	05×11	109	6.3×11	127	6.3×11	151	08×12	172
68		05×11	102	05×11	119	05×11	145	05×11	151	6.3×11	169	6.3×11	196	08×12	206

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Cap (µF)	V (Code)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)	
	Item	D×L	R.C.	D×L	R.C.	D×L	R.C.	D×L	R.C.	D×L	R.C.	D×L	R.C.	D×L	R.C.
100		05×11	111	05×11	139	6.3×11	151	6.3×11	163	08×12	194	08×14	242	10×13	254
220		05×11	175	6.3×11	212	08×12	237	08×12	290	10×13	332	10×20	363	10×20	436
330		6.3×11	233	6.3×11	272	08×12	321	10×13	369	10×16	484	10×17	514	13×21	666
470		6.3×11	266	08×12	299	08×14	381	08×16	436	10×20	581	13×21	762	13×25	847
								10×16	460						
560		08×12	272	08×12	306	08×14	387	10×16	448	10×20	629	13×21	774	13×25	871
680		08×12	278	08×12	319	08×16	424	10×20	581	13×21	702	13×25	799	16×26	1004
1000		08×14	484	10×13	586	10×16	617	10×20	750	13×21	908	13×25	1089	16×32	1210
1500		08×20	545	10×20	592	10×20	641	13×21	787	13×25	1041	16×32	1452	18×32	1718
2200		10×20	774	10×20	918	13×21	1004	13×25	1132	22×25	1343	16×36	1609	18×35	1997
3300		10×20	908	13×21	1091	13×25	1222	13×25	1380	16×36	1730	18×35	1997	22×40	2347
4700		13×21	1162	13×25	1306	16×26	1464	16×32	1718	16×32	1950	22×40	2541	22×50	2965
6800		13×25	1385	16×26	1770	16×36	1863	18×35	2202	22×40	2602	22×50	3025		
10000		16×26	1730	16×36	2236	18×35	2335	22×40	2589	22×50	3207				
15000		16×36	2214	18×35	2808	22×40	2928	22×50	3328						
22000		18×40	2771	22×40	3514	22×50	3630								

Cap (µF)	V (Code)	100 (2A)		Cap (µF)	V (Code)	100 (2A)		Cap (µF)	V (Code)	100 (2A)		Cap (µF)	V (Code)	100 (2A)	
	Item	D×L	R.C.		Item	D×L	R.C.		Item	D×L	R.C.		Item	D×L	R.C.
0.1~0.47		05×11	17	22		08×12	112	330		16×26	714	3300			
1		05×11	20	33		08×12	133	470		16×32	968	4700			
2.2		05×11	30	47		10×17	170	560		16×36	1012	6800			
3.3		05×11	36	56		10×16	187	680		18×32	1210	10000			
4.7		6.3×12	44	68		10×16	238	1000		18×35	1573	15000			
6.8		05×11	45	100		10×20	315	1500				22000			
10		6.3×11	75	220		13×25	581	2200							

Cap (µF)	V (Code)	160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)		500 (2H)	
	Item	D×L	R.C.	D×L	R.C.	D×L	R.C.	D×L	R.C.	D×L	R.C.	D×L	R.C.	D×L	R.C.
2.2		6.3×11	26	6.3×11	28	08×12	34	08×12	30	10×13	36	8×12	39		
3.3		08×12	36	08×12	42	08×12	48	10×13	39	10×13	46	10×16	51	10×20	35
4.7		08×12	48	08×12	51	10×13	61	10×13	46	10×16	61	10×20	65	10×20	48
6.8		08×12	51	08×12	61	10×13	70	10×13	76	10×16	83	13×21	87	13×21	65
10		10×13	61	10×16	73	10×16	85	10×20	97	10×20	97	13×21	95	13×21	80
22		10×16	121	10×20	163	13×21	157	13×25	151	13×25	175	16×26	182	16×26	105

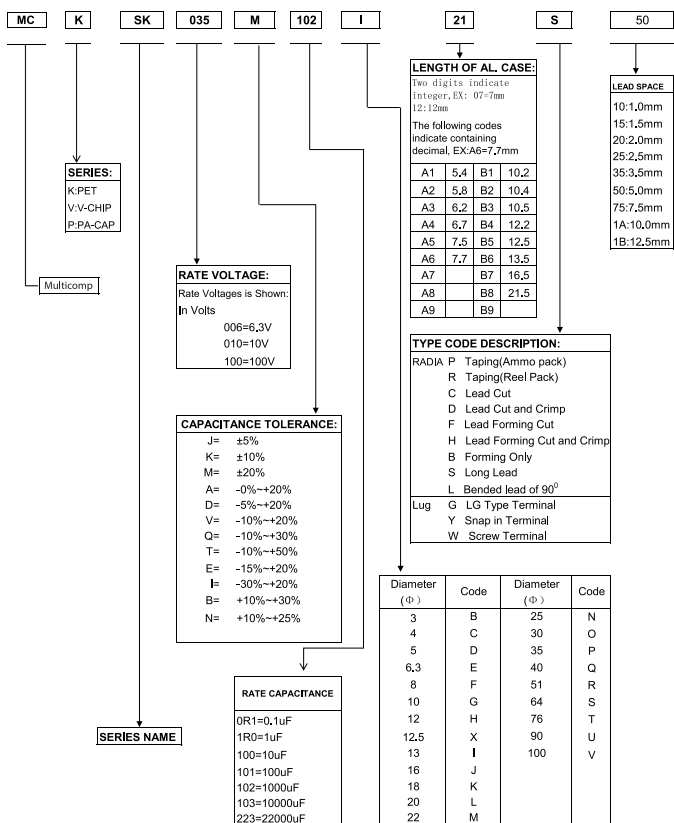
Newark.com/multicomp-pro
 Farnell.com/multicomp-pro
 sg.element14.com/b/multicomp-pro

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Cap (uF)	V (Code)	160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)		500 (2H)	
	Item	D×L	R.C.	D×L	R.C.	D×L	R.C.	D×L	R.C.	D×L	R.C.	D×L	R.C.	D×L	R.C.
33		10×20	145	13×21	175	13×21	182	13×25	176	16×26	211	16×26	211	16×32	145
47		13×21	194	13×25	242	13×25	248	16×26	254	16×26	278	16×32	339	18×35	165
68		13×21	224	13×25	253	16×26	272	16×32	260	16×32	317	18×32	508	18×45	180
82		13×25	266	13×25	278	16×26	300	16×32	284	18×26	424	18×35	569		
100		16×26	363	16×26	320	16×32	393	18×32	328	18×32	484	18×40	605		
120		16×26	363	16×26	363	16×32	460	18×35	347	18×35	545	18×40	666		
150		16×26	399	16×32	444	18×32	545	18×40	387	18×40	605	22×45	750		
220		16×36	520	18×32	641	22×35	847								
330		18×35	726	22×35	750										
470		18×40	877	22×40	925										

Explanation of parts numbers



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