

- Endurance with ripple current:5000hours at 105°C
- bi-polar type for the circuit of which polarity is frequently reversrd , low impedance
- Large capacitor.non-polar and applicable for polarity reversal circuits or circuits with unknown electronic circuits for coupling, decoupling, bypassing and filtering.
- apply to Coupled circuit. Cathodic protection equipment , The constant potential apparatus , To protect the instrument pipeline.exclusion stray current. surge protective device. Lightning protection equipment etc

◆SPECIFIC ATIONS

items	Characteristics	
Category temperature Range	-25~+105°C	
Rated voltage Range	16~100 _{VDC}	
Capacitance Tolerance	±20% (M) at 20°C/120HZ	
Leakage Current	I=0.02CV or 5mA,whichever is smaller I: Where, I: Max. leakage current (μA)、C: Nominal capacitance (μF)、Rated voltage (V) at 20°C after 5 minutes	
Dissipation Factor (tanδ)	≤0.25 at 20°C/120HZ	
Low Temperature characteristics	Capacitance change(vdc) $C(-25^{\circ}C)/C(+20^{\circ}C) \geq 0.7$ at 20°C/120HZ	
Insulation Resistance	When measured between the terminals that are connected to each other and to the mounting clamp on the insulating sleeve covering the case by using an insulation resistance meter of 500Vdc, the insulation resistance shall not be less than 100mΩ	
Insulation Withstanding Voltage	When a voltage of 2,000Vac is applied for 1 minute between the terminals that are connected to each other and to the mounting clamp on the insulating sleeve covering the case, there shall not be electrical damage	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 5,000 hours at 105°C	
	Capacitance change	≤±20% of the initial value
	D.F. (tanδ)	≤200% of the initial specified value
	Leakage current	≤The initial specified value
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for1000 hours at 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4	
	Capacitance change	≤±20% of the initial value
	D.F. (tanδ)	≤200% of the initial specified value
	Leakage current	≤The initial specified value

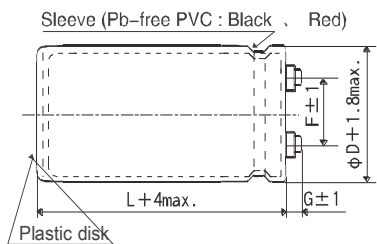
◆ DIMENSIONS[mm]

● Terminal Code : M5

● Mounting Clamp Code : B

● Mounting Clamp Code : C

● NO Mounting Clamp Code : N



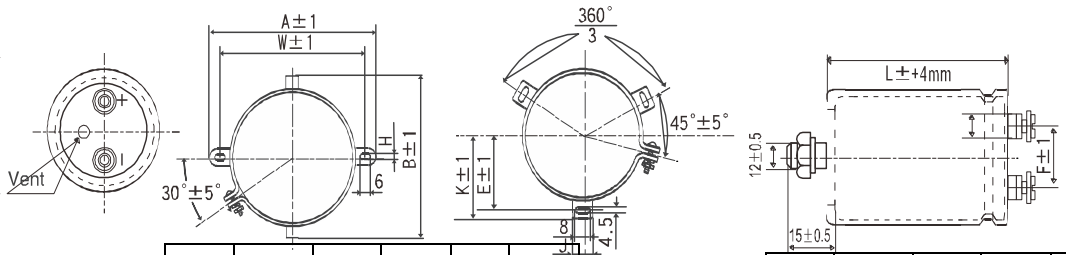
Ø35~ Ø63.5: G=6 Ø76.2~ Ø89: G=5

Screw specifications

~ Plus hexagon-headed screw M5*0.8*10 M6*1.0*10 Ø100

Maximum screw tightening torque 3.23N.m The screw and

the mounting clamp are separately supplied and not attached to the product

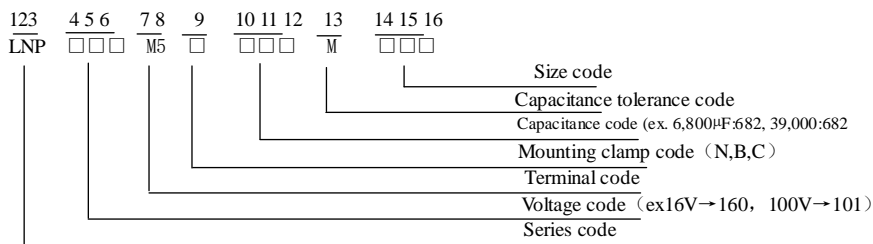


ØD	A	B	W	H	F
35	58.0	44.0	48.0	3.5	12.7
50	78.0	64.0	68.0	4.5	22.4
63.5	90.0	76.0	80.0	4.5	28.0
76.2	104.5	90.0	93.5	4.5	31.5

ØD	E	K	F	J
50	32.5	37.0	14.0	22.4
63.5	38.1	43.5	28.0	14.0
76.2	44.5	50.0	31.5	14.0
89	50.8	56.5	31.5	16.0
100	56.5	63.4	41.5	18.0



◆PART NUMBERING SYSTEM



Please refer to "Product code guide (screw-mount terminal type)"

SRANDRAD RATINGS

W. V [Vdc]	cap [µ F]	Case size D x L [mm]	Low Impedance 120 Hz, 20°C [mΩ]	Ripple current IR~120 Hz, 105°C [A]	Part NO.	W. V [Vdc]	cap [µ F]	Case size D x L [mm]	Low Impedance 120 Hz, 20°C [mΩ]	Ripple current IR~120 Hz, 105°C [A]	Part NO.	
16v	82000	35*55	6	9.0	LNP160M5B823MA055	25v	82000	42*90	7	11.0	LNP250M5B823MB090	
	120000	35*70	4	12.0	LNP160M5B124MA070		101000	50*70	4	12.3	LNP250M5B104MC070	
	120000	42*50	4	11.1	LNP160M5B124MB500		120000	42*110	4	14.6	LNP250M5B124MB110	
	150000	35*80	4	14.2	LNP160M5B154MA800		120000	50*80	4	14.2	LNP250M5B124MC800	
	150000	42*60	3	13.7	LNP160M5B154MB060		150000	50*100	3	17.3	LNP250M5B154MC101	
	180000	35*100	3	17.0	LNP160M5B184MA101		180000	65*80	3	22.4	LNP250M6C184MD800	
	180000	42*70	3	15.8	LNP160M5B184MB070		270000	65*100	2	29.8	LNP250M6C274MD101	
	180000	42*80	3	15.0	LNP160M5B184MB800		330000	76*100	1	28.5	LNP250M6C334ME101	
	220000	42*90	2	19.1	LNP160M5B224MB090		330000	65*130	1	36.4	LNP250M6C334MD130	
	220000	50*70	2	17.7	LNP160M5B224MC070		390000	65*130	1	32.6	LNP250M6C394MD130	
	270000	42*110	2	21.1	LNP160M5B274MB110		560000	76*145	1	42.7	LNP250M6C564ME145	
	270000	50*80	2	20.6	LNP160M5B274MC800		560000	76*165	1	45.0	LNP250M6C564ME165	
	390000	50*100	1	27.0	LNP160M5B394MC101		820000	89*148	1	58.2	LNP250M6C824MF148	
	470000	65*80	1	35.6	LNP160M6C474MD800		820000	89*148	1	62.0	LNP250M6C824MF148	
	560000	65*100	1	42.1	LNP160M6C564MD101		820000	89*170	1	61.5	LNP250M6C824MF170	
	820000	65*130	1	56.5	LNP160M6C824MD130		1200000	89*220	1	82.6	LNP250M6C125MF220	
	820000	76*100	1	44.1	LNP160M6C824ME101		1500000	89*230	1	94.0	LNP250M6C155MF230	
	1010000	76*115	1	46.5	LNP160M6C105ME115		40v	18000	35*55	21	4.7	LNP400M5B183MA055
	1200000	76*145	1	50.8	LNP160M6C125ME145			22000	42*50	17	5.3	LNP400M5B223MB500
	1500000	76*165	1	53.5	LNP160M6C155ME165			27000	35*70	14	6.4	LNP400M5B273MA070
1800000	89*148	1	57.3	LNP160M6C185MF148	33000	35*80		12	7.4	LNP400M5B333MA800		
2200000	76*225	1	61.0	LNP160M6C225ME225	33000	42*60		12	7.2	LNP400M5B333MB060		
2200000	89*170	1	60.4	LNP160M6C225MF170	39000	35*100		10	8.9	LNP400M5B393MA101		
2700000	89*220	1	67.1	LNP160M6C275MF220	39000	42*70		10	8.2	LNP400M5B393MB070		
3300000	89*230	1	68.3	LNP160M6C335MF230	39000	42*80		10	7.8	LNP400M5B393MB800		
25v	33000	35*55	14	5.9	LNP250M5B333MA055	56000		50*70	7	10.0	LNP400M5B563MC070	
	47000	35*70	9	7.8	LNP250M5B473MA070	56000		42*90	7	10.8	LNP400M5B563MB090	
	47000	42*50	9	7.2	LNP250M5B473MB500	68000		50*80	6	11.6	LNP400M5B683MC800	
	56000	35*80	8	9.0	LNP250M5B563MA800	68000		42*110	6	11.8	LNP400M5B683MB110	
	68000	42*60	7	9.5	LNP250M5B683MB060	82000		50*100	5	13.8	LNP400M5B823MC101	
	68000	35*100	5	11.9	LNP250M5B683MA101	100000		65*80	4	18.3	LNP400M6C104MD800	
	68000	42*70	7	10.0	LNP250M5B683MB070	150000		65*100	3	24.4	LNP400M6C154MD101	
	82000	42*80	5	10.5	LNP250M5B823MB800	180000		76*100	2	23.1	LNP400M6C184ME101	



SRANDRAD RATINGS

W, V [Vdc]	cap [μ F]	Case size D x L [mm]	Low Impedance 120 Hz, 20°C [mΩ]	Ripple current IR~120 Hz, 105°C [A]	Part NO.	W, V [Vdc]	cap [μ F]	Case size D x L [mm]	Low Impedance 120 Hz, 20°C [mΩ]	Ripple current IR~120 Hz, 105°C [A]	Part NO.
40v	180000	65*130	2	29.6	LNP400M6C184MD130	63v	39000	50*100	7	11.0	LNP630M5B393MC101
	220000	76*115	2	26.9	LNP400M6C224ME115		47000	65*80	6	14.5	LNP630M6C473MD800
	270000	76*145	1	32.6	LNP400M6C274ME145		68000	65*100	4	19.0	LNP630M6C683MD101
	330000	76*165	1	38.0	LNP400M6C334ME165		82000	76*100	3	18.0	LNP630M6C823ME101
	470000	89*148	1	48.5	LNP400M6C474MF148		101000	65*130	3	25.5	LNP630M6C104MD130
	470000	76*225	1	51.6	LNP400M6C474ME225		120000	76*115	2	22.9	LNP630M6C124ME115
	560000	89*170	1	55.8	LNP400M6C564MF170		150000	76*145	2	28.1	LNP630M6C154ME145
	680000	89*220	1	68.3	LNP400M6C684MF220		180000	76*165	2	32.4	LNP630M6C184ME165
	680000	89*230	1	69.6	LNP400M6C684MF230		220000	89*148	1	38.3	LNP630M6C224MF148
50v	6800	35*50	38	2.5	LNP500M5B682MA500	220000	76*225	1	40.8	LNP630M6C224ME225	
	8200	35*50	33	2.8	LNP500M5B822MA500	270000	89*170	1	44.8	LNP630M6C274MF170	
	10100	42*40	22	3.1	LNP500M5B103MB400	330000	89*220	1	54.9	LNP630M6C334MF220	
	15000	42*50	18	3.3	LNP500M5B153MB500	390000	89*230	1	60.9	LNP630M6C394MF230	
	15000	35*60	16	3.4	LNP500M5B153MA060	80v	6800	35*55	47	3.2	LNP800M5B682MA055
	18000	42*60	14	6.1	LNP500M5B183MB060		8200	42*50	39	3.8	LNP800M5B822MB500
	22000	42*70	10	6.5	LNP500M5B223MB070		10100	35*70	32	4.2	LNP800M5B103MA070
	27000	50*70	8	8.0	LNP500M5B273MC070		12000	35*80	27	4.6	LNP800M5B123MA800
	33000	42*100	7	7.0	LNP500M5B333MB101		12000	42*60	27	4.7	LNP800M5B123MB060
	39000	50*90	7	10.0	LNP500M5B393MC090		15000	35*100	21	6.0	LNP800M5B153MA101
	47000	65*70	4	13.1	LNP500M6C473MD070		15000	42*70	21	5.6	LNP800M5B153MB070
	68000	65*85	4	16.5	LNP500M6C683MD085		15000	42*80	21	5.3	LNP800M5B153MB800
	82000	76*90	3	17.1	LNP500M6C823ME090		18000	42*90	18	6.2	LNP800M5B183MB090
	101000	65*120	3	22.1	LNP500M6C104MD120		18000	50*70	18	6.2	LNP800M5B183MC070
	120000	76*110	2	20.3	LNP500M6C124ME110		22000	42*110	14	7.9	LNP800M5B223MB110
	150000	76*130	2	24.6	LNP500M6C154ME130		22000	50*80	14	7.2	LNP800M5B223MC800
	180000	76*150	2	28.6	LNP500M6C184ME150		27000	50*100	12	8.7	LNP800M5B273MC101
	220000	89*140	1	35.1	LNP500M6C224MF140		39000	65*80	8	12.6	LNP800M6C393MD800
	270000	76*200	1	38.8	LNP500M6C274ME200		47000	65*100	7	15.0	LNP800M6C473MD101
	330000	89*200	1	48.6	LNP500M6C334MF200		68000	65*130	5	15.7	LNP800M6C683MD130
390000	89*210	1	51.6	LNP500M6C394MF210	68000		76*100	5	19.7	LNP800M6C683ME101	
470000	89*230	1	56.5	LNP500M6C474MF230	82000		76*115	4	18.0	LNP800M6C823ME115	
63v	8200	35*55	35	3.7	LNP630M5B822MA055		101000	76*145	3	21.7	LNP800M6C104ME145
	12000	42*50	24	4.6	LNP630M5B123MB500		120000	76*165	3	25.1	LNP800M6C124ME165
	15000	35*70	19	5.5	LNP630M5B153MA070	150000	89*148	2	30.0	LNP800M6C154MF148	
	18000	35*80	16	6.3	LNP630M5B183MA800	180000	76*225	2	35.0	LNP800M6C184ME225	
	18000	42*60	16	6.1	LNP630M5B183MB060	180000	89*170	2	34.3	LNP800M6C184MF170	
	18000	35*100	16	6.9	LNP630M5B183MA101	220000	89*220	1	42.6	LNP800M6C224MF220	
	22000	42*70	13	7.1	LNP630M5B223MB070	270000	89*230	1	48.0	LNP800M6C274MF230	
	22000	42*80	13	6.8	LNP630M5B223MB800	100v	3300	35*55	48	3.1	LNP101M5B332MA055
	27000	50*70	11	8.0	LNP630M5B273MC070		4700	35*70	34	4.1	LNP101M5B472MA070
	27000	42*110	11	8.6	LNP630M5B273MB110		4700	42*55	34	3.8	LNP101M5B472MB055
	33000	50*80	9	9.3	LNP630M5B333MC800		5600	35*80	28	4.7	LNP101M5B562MA800
	33000	42*110	9	9.5	LNP630M5B333MB110		5600	42*70	28	4.6	LNP101M5B562MB070

SRANDRAD RATINGS

W. V [Vdc]	cap [μ F]	Case size D x L [mm]	Low Impedance 120 Hz, 20°C [mΩ]	Ripple current IR~120 Hz, 105°C [A]	Part NO.	W. V [Vdc]	cap [μ F]	Case size D x L [mm]	Low Impedance 120 Hz, 20°C [mΩ]	Ripple current IR~120 Hz, 105°C [A]	Part NO.
100v	6800	35*100	23	5.7	LNP101M5B682MA101	100v	27000	76*100	6	13.9	LNP101M6C273ME101
	6800	42*70	23	5.3	LNP101M5B682MB070		33000	65*130	5	19.6	LNP101M6C333MD130
	8200	42*80	19	5.5	LNP101M5B822MB800		39000	76*115	4	17.6	LNP101M6C393ME115
	10100	50*70	16	6.5	LNP101M5B103MC070		47000	76*145	3	21.1	LNP101M6C473ME145
	10100	42*110	16	7.1	LNP101M5B103MB110		56000	76*165	3	24.2	LNP101M6C563ME165
	12000	42*120	13	7.7	LNP101M5B123MB120		68000	89*148	2	28.6	LNP101M6C683MF148
	12000	50*80	13	7.5	LNP101M5B123MC800		82000	76*225	2	33.4	LNP101M6C823ME225
	15000	50*100	11	9.2	LNP101M5B153MC101		82000	89*170	2	33.1	LNP101M6C823MF170
	18000	65*80	9	12.1	LNP101M6C183MD800		120000	89*220	1	44.5	LNP101M6C124MF220
	22000	65*100	7	14.5	LNP101M6C223MD101		120000	89*230	1	45.3	LNP101M6C124MF230

◆ RTED RIPPLE CURRENT MULTIPLIERS

The ripple frequency and standard list of the specified value is not at the same time, please use the value is less than the following

● Frequency Multiplier

Frequency (HZ)	50	120	300	1M	3M
coefficient	0.8	1.0	1.1	1.3	1.4

Note : The endurance of capacitors is shorted with internal heating produced by ripple current at the rate of halving the lifetime with every 5 to 10°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced. For the details, please contact representative of capsun