MP series 85℃ 5000hours

- Small Size
- Long Useful Life
- High Ripple Current
- Industrial Power Supplies and Inverters

■SPECIFICATIONS

Item	Performance Characteristics
Operating Temperature Range	-40~85℃
Rated Voltage Range	160~450V
Capacitance Range	47~3300uF
Capacitance Tolerance	±20% at 120Hz,20℃
Leakage Current (MAX)	After 5 minutes at 20℃ application of rated voltage,current is not more than 0.01CV or 1.5mA whichever is smaller. I=Leakage Current (uA) ,C=Nominal Capacitance (uF) ,V=Rated Voltage (V)
Dissipation Factor (tan δ)	Rated voltage(V): 160 / 200 / 250 / 400 / 450 Tan δ: 0.15 20℃ 120Hz
Low Temperature Stability Impedance Ratio	Measurement frequency:120Hz Rated voltage(V): 160~450 Z(-25℃) /Z (+20℃): 6
Load Life	After application of the rated DC voltage with rated ripple current at 85℃ 5000hours the capacitors shall meet the requirement bellow Leakage Current: ≤The initial specified value Capacitance Change: ±20% of the initial value Dissipation Factor: ≤200% of the initial specified value
Shelf Life	The following specifications shall be satusfied when the capacitors are restored to 20℃ after exposing them for 1000 hours at 85℃ without voltage applied. Leakage Current: ≤200% of the initial specified value Capacitance Change: ±20% of the initial value Dissipation Factor: ≤150% of the initial specified value

■MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency(Hz)	60(50)	120	1k	10k	≥100k
Coefficient	0.87	1.00	1.20	1.35	1.40

Temperature coefficient

Temperature	40℃	55℃	70℃	85℃
Coefficient	2.7	1.5	1.3	1.0

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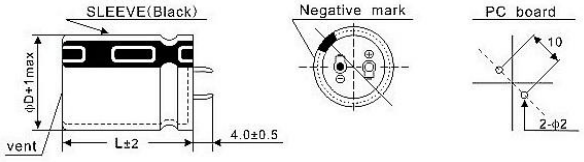
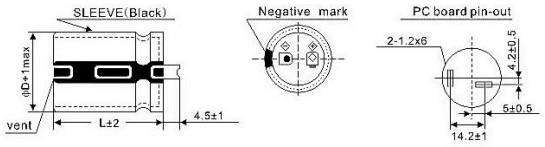
■DIMENSIONS(mm)

Terminal code:K (Φ22 ~Φ35) :Standard



Terminal code:L (Φ35 ~Φ40)



■STANDARD SIZE PERMISSIBLE RIPPLE CURRENT

Size ΦD×L(mm) Ripple Current(mA 105℃,100kHz)r.m.s

W.V	CAP (uF)	SIZE	Ripple current
160	330	22×25	1.47
	390	25×25	1.58
	470	22×35	1.78
	560	22×35	2.07
		25×30	2.17
		30×25	2.07
	680	22×40	2.57
		25×35	2.48
	820	22×50	2.77
		25×40	2.68
		30×30	2.87
		35×25	2.77
	1000	25×45	3.30
		30×35	3.37
		35×30	3.30
	1200	25×50	3.67
		30×40	3.78
		35×35	3.57
	1500	30×45	4.38
		35×40	4.27
	1800	35×45	4.38
	2200	35×50	5.87
	3300	40×60	5.50

W.V	CAP (uF)	SIZE	Ripple current
200	220	22×25	1.07
	330	22×30	1.53
		25×25	1.59
	390	22×35	1.77
		25×30	1.77
	470	22×40	2.00
		30×25	2.09
	560	22×45	2.18
		25×35	2.18
		30×30	2.31
		35×25	2.17
	680	25×40	2.58
		30×30	2.41
	820	25×50	2.67
		30×40	2.77
		35×30	2.58
	1000	30×40	3.38
		35×35	3.61
	1200	30×50	3.78
		35×40	3.67
	1500	35×50	4.70
	2200	40×40	5.40
	2700	40×50	5.90
	3300	40×60	6.50

W.V	CAP (uF)	SIZE	Ripple current
250	150	22×25	0.90
	180	22×25	0.97
	220	22×30	1.23
		25×25	1.23
	270	22×35	1.23
	330	22×40	1.62
		25×30	1.62
		30×25	1.62
	390	22×45	1.87
		25×35	1.87
	470	22×50	2.17
		25×40	2.17
		30×30	2.17
		35×25	2.17
	560	25×45	2.39
		30×35	2.39
	680	30×40	2.77
		35×30	2.77
	820	30×45	3.18
		35×35	3.18
	1000	35×40	3.70
	1200	35×45	4.12
	1500	35×50	4.57
	1800	40×50	5.00

customer products areavailable on request

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■STANDARD SIZE PERMISSIBLE RIPPLE CURRENT

Size ΦD×L(mm)Ripple Current(mA 105℃,100kHz)r.m.s

W.V	CAP (uF)	SIZE	Ripple current
400	68	22×25	0.60
	100	22×30	0.80
		25×25	0.83
	120	22×35	0.91
	150	22×40	1.17
		25×30	1.17
		30×25	1.17
	180	22×45	1.30
		25×35	1.30
		30×30	1.30
		35×25	1.30
	220	22×50	1.47
		25×40	1.47
		30×35	1.47
	270	25×45	1.71
		30×40	1.71
		35×30	1.71
	330	30×45	2.07
		35×35	2.07
	390	30×50	2.28
		35×40	2.28
	470	35×45	2.67
	560	35×50	2.98
	680	35×60	3.65
		40×50	3.80
	820	40×50	4.10
	1000	40×60	4.80
	1200	40×60	5.50

W.V	CAP (uF)	SIZE	Ripple current
450	47	22×25	0.50
	68	22×30	0.65
		25×25	0.65
	100	22×35	0.87
		25×30	0.87
		30×25	0.87
	120	22×40	1.08
		25×35	1.08
	150	22×50	1.29
		25×40	1.29
		30×30	1.29
	180	25×45	1.37
		30×35	1.37
		35×25	1.37
	220	22×50	1.60
		30×40	1.60
		35×30	1.60
	270	30×45	1.82
		35×35	1.82
	330	35×40	2.17
	390	35×45	2.41
	470	35×50	2.78
		40×40	3.00
	560	40×50	3.40
	680	35×60	3.50
		40×60	3.80
	820	40×60	4.40

W.V	CAP (uF)	SIZE	Ripple current

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