



MV Series

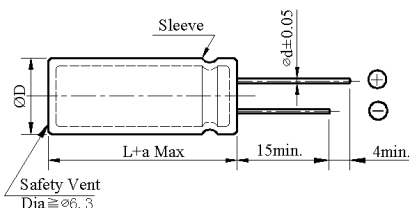
- High ripple current
- Low ESR
- Load life 5,000 hours at 105°C



◆ SPECIFICATIONS

Item	Performance Characteristics
Category Temperature Range	-25 ~ +105°C
Working Voltage Range	200 ~ 450Vdc
Capacitance Range	6.8 ~ 470 µF
Capacitance Tolerance	±20% (at 25°C and 120Hz)
Dissipation Factor (tanδ) (at 25°C, 120Hz)	Rated Voltage (V) 200 ~ 450
	tanδ(Max) 0.15
Leakage Current	I=0.03CV + 10µA 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) 200~250 350 400 420 ~ 450
	Z(-25°C)/Z(+20°C) 3 5 5 6 (at 120Hz)
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 5,000 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), characteristic W

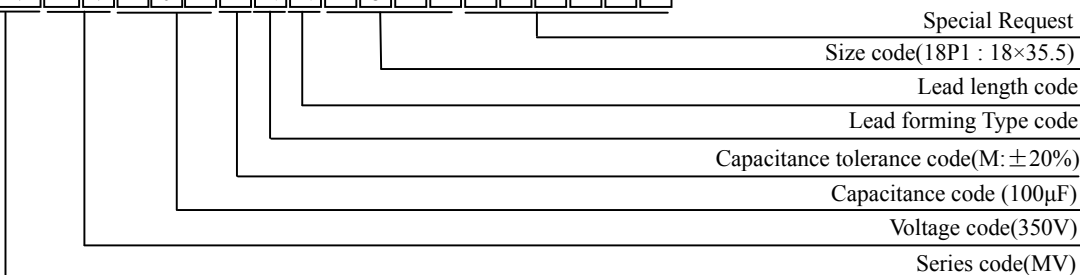
◆ DIMENSIONS (mm)



ΦD	10	12.5 L < 35	12.5 L ≥ 35	16	18
ΦD	ΦD +0.5 Max				
Φd	0.6	0.6	0.8	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 : 350V 100µF)

M V 2 V 1 0 1 M N N 1 8 P 1





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◆ Case size & Permissible rated ripple current: (mA rms) at 105°C / 120Hz

uF \ Vdc	200		250		350	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
6.8					10×12.5	100
10	10×12.5	110	10×16	120	10×16	120
15	10×16	143	10×20	165	10×20	162
22	10×20	225	10×20	235	12.5×20	255
33	10×20	268	12.5×20	295	12.5×25	300
47	12.5×20	385	12.5×25	408	16×25	410
68	12.5×25	525	16×20	540	18×25	540
82	16×25	595	16×25	610	18×31.5	630
100	18×25	700	18×25	730	18×35.5	735
120	18×25	730	18×25	770	18×40	775
150	18×31.5	855	18×31.5	875	18×45	880
220	18×35.5	1010	18×35.5	1030		
330	18×40	1120	18×45	1130		
390	18×45	1240				
470	18×50	1400				

uF \ Vdc	400		420		450	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
6.8	10×12.5	105	10×16	105	10×20	115
10	10×16	120	10×20	130	12.5×20	140
15	12.5×16	180	12.5×20	180	12.5×20	190
22	12.5×20	260	12.5×25	275	12.5×25	290
33	16×20	300	16×25	320	16×25	355
47	16×25	390	16×31.5	430	18×25	460
68	16×31.5	540	16×35.5	550	18×31.5	590
82	18×31.5	650	18×31.5	675	18×35.5	695
100	18×35.5	735	18×35.5	740	18×40	782
120	18×35.5	760	18×40	805	18×45	840
150	18×45	895	18×50	915	18×50	965

◆ RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Vdc	Frequency (Hz)				
	50/60	120	1K	10K	100K
200 ~ 350	0.80	1.00	1.20	1.30	1.40
400 ~ 450	0.80	1.00	1.15	1.25	1.35