

Part Numbering System



① Category code

Type	Code	
	2	3
Electrolytic Capacitor	E	
Conductive Polymer	S	

② Series code

Series name	Code	
	2	3
WH	W	H
CD11GE	G	E
CD11GES	G	X
CD11GAS	G	W
CD11GHS	G	S
NR	N	R
PZ	P	Z

③ Voltage code

WV (V _{dc})	Code	
	4	5
2.5	0	E
3	0	D
4	0	G
6.3	0	J
6.8	0	C
7	0	Q
7.5	0	A
10	1	A
12	1	T
16	1	C
25	1	E
35	1	V
40	1	G
50	1	H
63	1	J
80	1	B
100	1	K
120	2	B
160	2	C
180	2	L
200	2	D
220	2	N
250	2	E
315	2	F
350	2	V
380	2	P
400	2	G
420	2	T
450	2	W
500	2	H
550	2	J
600	2	K

④ Capacitance tolerance code

Tol. (%)	Code	
	6	
-10~+10	K	
-20~+20	M	
-10~+30	Q	
-10~+20	V	
0~+20	A	
-5~+20	C	
-10~-20	B	
-5~+5	D	
0~+10	E	
-5~-20	F	
-15~+5	N	

⑤ Capacitance code

Cap (μF)	Code		
	7	8	9
0.10	R	1	0
0.22	R	2	2
0.33	R	3	3
0.47	R	4	7
0.68	R	6	8
1	0	1	0
2.2	2	R	2
3.3	3	R	3
4.7	4	R	7
6.8	6	R	8
10	1	0	0
22	2	2	0
33	3	3	0
47	4	7	0
68	6	8	0
100	1	0	1
220	2	2	1
330	3	3	1
470	4	7	1
680	6	8	1
1000	1	0	2
2200	2	2	2
3300	3	3	2
4700	4	7	2
6800	6	8	2
10000	1	0	3
22000	2	2	3
33000	3	3	3
68000	6	8	3

⑥ Size code

ΦD (mm)	Code
4	C
5	D
6.3	E
8	F
10	G
11	H
12	J
12.5	W
13	K
14	X
16	L
18	M
19	Z
20	N
22	O
25	P
30	Q
35	R
40	Y
51.6	S
64.3	T
76.9	U
91	V
100	A

L (mm)	Code	
	11	12
5	0	5
7	0	7
11	1	1
12	1	2
16	1	6
20	2	0
25	2	5
30	3	0
35	3	5
40	4	0
46	4	6
50	5	0
60	6	0
80	8	0
100	A	0
115	B	5
120	C	0
130	D	0
140	E	0
160	G	0
200	K	0
220	M	0
236	N	6
250	P	0

⑦ Terminal code

Specification	Code		
	13	14	15
Bulk packing	O	-	-
Taping (SMD Type)	D	0	0
Φ4~8 Taping F=5.0mm	P	5	0
Φ10~12.5 Taping F=5.0mm	B	5	0
Lead Cut L=3.5mm	C	3	5
Lead Cut L=11.0mm	C	B	0
Lead Forming & Cut L=4.5mm	F	-	-
Kink & Cut L=4.5mm	J	-	-
Snap-in type Terminal 4.0mm in length	K	-	-
Three Terminals	T	-	-
Ring clip mounting standard design	A	0	0
Ring clip mounting special design	S	-	-

⑧ Sleeve/Marking code

Sleeve/Marking	Code	
	16	
PVC	C	
PET	T	
Dark blue	B	
Bright red	R	
Sky-blue	S	
Light blue	T	
Pink	Z	
Black	H	
Purple-blue	V	
Red	O	

Lead Forming
Taping Specifications

Fig.1 code: X



Fig.2 code: B



Fig.3 code: B



Fig.4 code: P



Lead Forming

Specification Fig.1 & Fig.2 & Fig.3

Items	Symbol	Case size										Tolerance		
		4*5 4*7		5*5 5*7		5*11		6.3*5	6.3*7 6.3*9	6.3*11 6.3*12	8*5/7 8*9/11 8*11.5 8*12		8*16 8*20	10*9/12 10*12.5 10*13/16 10*20/25
Pin Code		X	B	X	B	X	B	B	B	B	B	B	B	
Lead wire diameter	Φd	0.45		0.45		0.5		0.45	0.5	0.5	0.45/0.5	0.6	0.6	±0.05
Pitch of body	P	12.7		12.7		12.7		12.7	12.7	12.7	12.7	12.7	12.7	±1.0
Feed hole pitch	P0	12.7		12.7		12.7		12.7	12.7	12.7	12.7	12.7	12.7	±0.2
Distance from hole center to lead	P1	5.1	5.6	5.1	5.35	5.1	5.35	5.1	5.1	5.1	4.6	4.6	3.85	±0.7
Distance from feed hole center to body center	P2	6.35		6.35		6.35		6.35	6.35	6.35	6.35	6.35	6.35	±1.0
Lead-to-lead distance	F	2.5	1.5	2.5	2.0	2.5	2.0	2.5	2.5	2.5	3.5	3.5	5.0	±0.5
Height of body from tape center	H	18.5		18.5		18.5		18.5	18.5	18.5	18.5	18.5	18.5	±0.75
Base tape width	W	18.0		18.0		18.0		18.0	18.0	18.0	18.0	18.0	18.0	±0.5
Adhesive tape width	W0	6.0		6.0		6.0		6.0	6.0	8.0	8.0	8.0	11.0	min
Hole position	W1	9.0		9.0		9.0		9.0	9.0	9.0	9.0	9.0	9.0	+0.75 -0.5
Hole down tape position	W2	3.0		3.0		3.0		3.0	3.0	3.0	3.0	3.0	3.0	max

Specification Fig.4

Items	Symbol	Case size									Tolerance
		4*5 4*7	5*5	5*7	5*11	6.3*5	6.3*7 6.3*9	6.3*11 6.3*12	8*5/7 8*9/11 8*11.5/12	8*16 8*20	
Pin Code		P	P	P	P	P	P	P	P	P	
Lead wire diameter	Φd	0.45	0.45	0.45	0.5	0.45	0.5	0.5	0.45/0.5	0.6	±0.05
Pitch of body	P	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	±1.0
Feed hole pitch	P0	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	±0.2
Distance from hole center to lead	P1	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	±0.7
Distance from feed hole center to body center	P2	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	±1.0
Lead-to-lead distance	F	1.5	2.0	2.0	2.0	2.5	2.5	2.5	3.5	3.5	±0.5
Lead to lead distance	F1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	+0.8 -0.2
Height of body from tape center	H	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	±0.75
Lead wire clinch height	H0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	±0.5
Base tape width	W	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	±0.5
Adhesive tape width	W0	6.0	6.0	6.0	6.0	6.0	6.0	8.0	8.0	8.0	min
Hole position	W1	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	+0.75 -0.5
Hole down tape position	W2	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	max

Lead Forming

Lead Forming & Cut

Code:C
RANGE: $\Phi 4\sim\Phi 18$



Code:F
RANGE: $\Phi 4\sim\Phi 8$



ΦD	F	L	ΦD	F	L
4	1.5	3.0~12.0	4	5.0	3.5, 4.5, 5.0, 7.0
5	2.0	3.0~12.0	5	5.0	3.5, 4.5, 5.0, 7.0
6.3	2.5	3.0~12.0	6.3	5.0	3.5, 4.5, 5.0, 7.0
8	3.5	3.0~12.0	8	5.0	3.5, 4.5, 5.0, 7.0
10	5.0	3.0~12.0	-	-	-
12.5	5.0	3.0~12.0	-	-	-
16	7.5	3.0~12.0	-	-	-
18	7.5	3.0~12.0	-	-	-

Code:J
RANGE: $\Phi 10\sim\Phi 18$



ΦD	F	L
10	5.0	4.0, 4.5, 5.0
12.5	5.0	4.0, 4.5, 5.0
16	7.5	4.0, 4.5, 5.0
18	7.5	4.0, 4.5, 5.0

Solering Recommendation

■ Flow Soldering(Radial Lead Type)



■ Reflow Soldering

- (For Polymer SMD Type)

Recommended Reflow Profile



Item	Preheating	T1(°C)	T2(°C)	T3(°C)	t1(sec.)	t2(sec.)	t3(sec.)	Reflow cycle
Condition 1	150°C to 180°C Within 90sec.	≤260	230	200	≤10	≤40	≤60	1
Condition 2		≤250	230	200	≤10	≤40	≤60	2

● (For Liquid SMD Type)

Case size: $\Phi 6.3$ – $\Phi 10$ mm:

- Temperature at surface of capacitor shall not exceed $T^{\circ}\text{C}$.
- The duration for over 200°C temperature and $T_1^{\circ}\text{C}$ at surface of capacitor shall not exceed t and t_1 seconds, respectively.
- Preheat shall be done at 100°C to 200°C and for Maximum 180 seconds.



Case size (mm)	$T(^{\circ}\text{C})$ ①	$T_1(^{\circ}\text{C})$	$t(\text{sec.})$ ②	$t_1(\text{sec.})$ ③	Reflow cycle
$\Phi 6.3$	250	230	90	40	1
$\Phi 8$	240	230	90	30	1
$\Phi 10$	235	230	60	30	1

- ① Peak temperature
- ② The duration over 200°C (max.)
- ③ The duration over $T_1^{\circ}\text{C}$
- Please contact us if capacitors are subject to the conditions other than the allowable range of reflow.

Case size: $\Phi 12.5$ – $\Phi 18$ mm:

- Temperature at surface of capacitor shall not exceed $T^{\circ}\text{C}$.
- The duration for over 200°C temperature and $T_1^{\circ}\text{C}$ at surface of capacitor shall not exceed t and t_1 seconds, respectively.
- Preheat shall be done at 100°C to 180°C and for Maximum 150 seconds.



Case size (mm)	$T(^{\circ}\text{C})$ ①	$T_1(^{\circ}\text{C})$	$t(\text{sec.})$ ②	$t_1(\text{sec.})$ ③	Reflow cycle
$\Phi 12.5$ – $\Phi 18$	240	230	60	30	1

- ① Peak temperature
- ② The duration over 200°C (max.)
- ③ The duration over $T_1^{\circ}\text{C}$
- Please contact us if capacitors are subject to the conditions other than the allowable range of reflow.

LM series

- Downsized, longer life, high ripple current series
- Endurance: 3,000 hours at 105°C
- RoHS Compliant

Upgrade

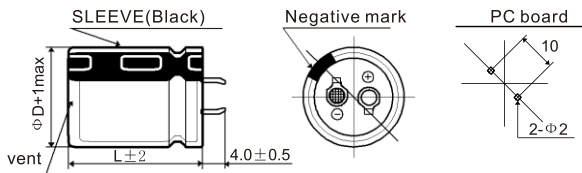


SPECIFICATIONS

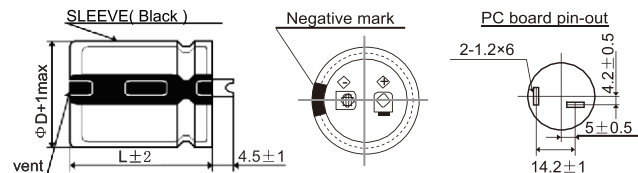
Items	Characteristics			
Category Temperature Range	-25~+105°C			
Rated Voltage Range	160~550V.DC			
Capacitance Tolerance	±20%(M) (at 20°C,120Hz)			
Leakage Current	$I \leq 3\sqrt{CV}$ Where, I:Max.leakage current (µA),C:Nominal capacitance (µF),V: Rated voltage (V) (at 20°C after 5 minutes)			
Dissipation Factor (tanδ)	Rated Voltage(V _{dc})	160 to 400	420 to 550	(at 20°C,120Hz)
	tanδ (max.)	0.15	0.20	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V _{dc})	160 to 250	315 to 550	(at 120Hz)
	Z(-25°C)/Z(+20°C)	4	8	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after DC voltage plus the rated ripple current is applied for 3,000 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 for 1,000 hours at 105°C without voltage applied.			
	Capacitance Change	≤±15% of the initial value		
	D.F. (tanδ)	≤150% of the initial specified value		
	Leakage Current	≤200% of the initial specified value		

DIMENSIONS[mm]

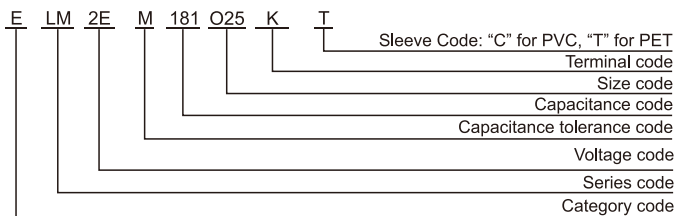
- Terminal Code : K (Φ22 to Φ35) : Standard



- Terminal Code : L (Φ35)



PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current(Hz)

W.V	120	1k	10k	100k
160~250	1.00	1.32	1.45	1.50
315~550	1.00	1.30	1.41	1.43

The endurance of capacitors is shortened 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.

LM series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	tanδ	Rated ripple current (Arms/105°C,120Hz)	
160(2C)	220	22*20	0.15	0.81	
	270	25*20	0.15	0.98	
		22*25	0.15	1.20	
	330		25*20	0.15	1.02
			22*25	0.15	1.30
			25*25	0.15	1.26
	390		30*20	0.15	1.25
			22*30	0.15	1.55
			25*25	0.15	1.55
	470		30*20	0.15	1.30
			22*35	0.15	1.67
			25*30	0.15	1.67
	560		30*25	0.15	1.67
			35*20	0.15	1.46
			22*40	0.15	1.82
	680		25*30	0.15	1.82
			30*25	0.15	1.82
			35*20	0.15	1.51
	820		22*45	0.15	2.04
			25*35	0.15	2.04
			30*30	0.15	2.04
	1000		35*25	0.15	2.04
			22*50	0.15	2.25
			25*40	0.15	2.25
	1200		30*30	0.15	2.25
			35*25	0.15	2.25
			25*45	0.15	2.49
	1500		30*35	0.15	2.49
			35*30	0.15	2.49
			25*60	0.15	2.97
	1800		30*40	0.15	2.84
			35*30	0.15	2.84
			30*45	0.15	3.32
2200		35*35	0.15	3.00	
		30*60	0.15	3.86	
		35*45	0.15	3.50	
2700	35*50	0.15	4.00		
3300	35*60	0.15	4.63		
180(2L)	180	22*20	0.15	0.80	
	220	25*20	0.15	0.90	
		22*25	0.15	1.00	
	270		25*20	0.15	0.95
			22*25	0.15	1.20
			25*25	0.15	1.16
	330		30*20	0.15	1.15
			22*30	0.15	1.35
			25*25	0.15	1.35
	390		30*20	0.15	1.20
			22*35	0.15	1.50
			25*30	0.15	1.50
	470		30*25	0.15	1.50
			35*20	0.15	1.36
			22*40	0.15	1.67
	560		25*30	0.15	1.67
			30*25	0.15	1.67
			35*20	0.15	1.43
	680		22*45	0.15	1.78
			25*35	0.15	1.78
			30*30	0.15	1.78
	820		35*25	0.15	1.83
			22*50	0.15	2.04
			25*40	0.15	2.04
	1000		30*30	0.15	2.04
			35*25	0.15	2.04
			25*45	0.15	2.30
	1200		30*35	0.15	2.30
			35*30	0.15	2.30
			25*50	0.15	2.55
	1500		30*40	0.15	2.55
			35*30	0.15	2.55
			30*45	0.15	2.90
1800		35*35	0.15	2.90	
		30*60	0.15	3.49	
		35*40	0.15	3.30	
2200	35*50	0.15	3.65		
2700	35*60	0.15	4.19		

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	tanδ	Rated ripple current (Arms/105°C,120Hz)	
200(2D)	150	22*20	0.15	0.73	
	180	22*20	0.15	0.80	
	220	25*20	0.15	0.85	
	270		22*25	0.15	1.10
			30*20	0.15	1.05
			22*30	0.15	1.25
	330		25*25	0.15	1.25
			30*20	0.15	1.10
			22*30	0.15	1.35
	390		25*25	0.15	1.35
			35*20	0.15	1.30
			22*35	0.15	1.50
	470		25*30	0.15	1.50
			30*25	0.15	1.50
			35*20	0.15	1.41
	560		22*40	0.15	1.67
			25*30	0.15	1.67
			30*25	0.15	1.67
	680		22*45	0.15	1.78
			25*35	0.15	1.78
			30*30	0.15	1.78
	820		35*25	0.15	1.78
			25*45	0.15	2.04
			30*30	0.15	2.04
	1000		35*25	0.15	2.04
			25*50	0.15	2.30
			30*35	0.15	2.30
	1200		35*30	0.15	2.30
			25*60	0.15	2.66
			30*40	0.15	2.65
	1500		35*35	0.15	2.65
			30*50	0.15	3.08
			35*40	0.15	3.08
1800		30*60	0.15	3.49	
		35*45	0.15	3.48	
		35*50	0.15	3.78	
220(2N)	150	22*20	0.15	0.67	
	180	25*20	0.15	0.76	
	220	22*25	0.15	1.00	
		25*20	0.15	0.84	
	270		22*30	0.15	1.15
			25*25	0.15	1.08
			30*20	0.15	0.98
	330		22*35	0.15	1.25
			25*25	0.15	1.25
			35*20	0.15	1.13
	390		22*35	0.15	1.40
			25*30	0.15	1.40
			30*25	0.15	1.36
	470		35*20	0.15	1.23
			22*40	0.15	1.51
			25*35	0.15	1.54
	560		30*25	0.15	1.50
			22*45	0.15	1.70
			25*40	0.15	1.72
	680		30*30	0.15	1.70
			35*25	0.15	1.71
			25*45	0.15	1.94
	820		30*35	0.15	1.93
			35*25	0.15	1.89
			25*50	0.15	2.18
	1000		30*40	0.15	2.19
			35*30	0.15	2.16
			25*60	0.15	2.54
	1200		30*45	0.15	2.50
			35*35	0.15	2.44
			30*50	0.15	2.81
	1500		35*40	0.15	2.79
			30*60	0.15	3.30
		35*45	0.15	3.22	
1800	35*50	0.15	3.63		
2200	35*60	0.15	4.23		

Snap-in&Lug Terminal Type

LM series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	tanδ	Rated ripple current (Arms/105°C,120Hz)
250(2E)	120	22*20	0.15	0.60
	150	25*20	0.15	0.74
	180	22*25	0.15	0.78
		25*20	0.15	0.75
	220	22*25	0.15	1.00
		25*25	0.15	0.95
		30*20	0.15	0.95
	270	22*30	0.15	1.18
		25*25	0.15	1.18
		30*20	0.15	1.00
	330	22*35	0.15	1.30
		25*30	0.15	1.30
		30*25	0.15	1.30
	390	35*20	0.15	1.16
		22*40	0.15	1.49
		25*35	0.15	1.49
	470	30*25	0.15	1.49
		22*45	0.15	1.65
		25*35	0.15	1.65
	560	30*30	0.15	1.65
35*25		0.15	1.65	
22*50		0.15	1.67	
680	25*40	0.15	1.80	
	30*30	0.15	1.80	
	35*25	0.15	1.80	
820	25*50	0.15	2.00	
	30*35	0.15	2.00	
	35*30	0.15	2.00	
1000	25*60	0.15	2.20	
	30*40	0.15	2.30	
	35*35	0.15	2.30	
1200	30*50	0.15	2.47	
	35*40	0.15	2.47	
1500	30*60	0.15	2.85	
1800	35*45	0.15	2.60	
1500	35*50	0.15	3.00	
1800	35*60	0.15	3.42	
315(2F)	68	22*20	0.15	0.45
	82	22*20	0.15	0.47
	100	22*25	0.15	0.61
		25*20	0.15	0.56
	120	22*25	0.15	0.75
		25*20	0.15	0.62
	150	30*20	0.15	0.65
		22*30	0.15	0.82
		25*25	0.15	0.82
	180	30*20	0.15	0.70
		35*20	0.15	0.76
		22*35	0.15	0.92
	220	25*25	0.15	0.92
		30*25	0.15	0.90
		35*20	0.15	0.85
	270	22*40	0.15	1.04
		25*30	0.15	1.04
		30*25	0.15	1.04
	330	35*20	0.15	0.90
		22*45	0.15	1.16
		25*35	0.15	1.16
	390	30*25	0.15	1.16
		35*25	0.15	1.15
		22*50	0.15	1.33
	470	25*40	0.15	1.33
		30*30	0.15	1.33
		35*25	0.15	1.33
	560	25*45	0.15	1.47
		30*35	0.15	1.47
		35*30	0.15	1.47
680	25*50	0.15	1.70	
	30*40	0.15	1.70	
	35*30	0.15	1.70	
820	35*30	0.15	1.70	
	30*45	0.15	2.05	
	35*35	0.15	2.05	
1000	30*50	0.15	2.17	
1000	35*40	0.15	2.17	
1000	35*45	0.15	2.20	
1000	35*60	0.15	2.55	

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	tanδ	Rated ripple current (Arms/105°C,120Hz)
350(2V)	56	22*20	0.15	0.41
	68	25*20	0.15	0.46
	82	22*25	0.15	0.55
		25*20	0.15	0.51
	100	22*30	0.15	0.69
		30*20	0.15	0.60
	120	22*30	0.15	0.75
		25*25	0.15	0.75
		30*20	0.15	0.65
	150	22*35	0.15	0.82
		25*30	0.15	0.83
		30*25	0.15	0.82
	180	35*20	0.15	0.76
		22*40	0.15	0.92
		25*30	0.15	0.92
	220	30*25	0.15	0.90
		22*45	0.15	1.05
		25*35	0.15	1.04
	270	30*30	0.15	1.02
		35*25	0.15	1.04
22*50		0.15	1.16	
330	25*40	0.15	1.18	
	30*30	0.15	1.17	
	35*25	0.15	1.20	
390	25*45	0.15	1.29	
	30*35	0.15	1.34	
	35*30	0.15	1.22	
470	25*50	0.15	1.51	
	30*40	0.15	1.51	
	35*35	0.15	1.47	
560	25*60	0.15	1.66	
	30*45	0.15	1.65	
	35*35	0.15	1.69	
680	30*50	0.15	1.85	
	35*40	0.15	1.90	
	30*60	0.15	2.15	
820	35*50	0.15	1.99	
820	35*60	0.15	2.31	
400(2G)	47	22*20	0.15	0.37
	56	25*20	0.15	0.42
	68	22*50	0.15	0.50
		25*20	0.15	0.46
	82	22*25	0.15	0.64
		30*20	0.15	0.55
	100	22*30	0.15	0.70
		25*25	0.15	0.70
		30*20	0.15	0.60
	120	22*35	0.15	0.75
		25*25	0.15	0.75
		30*25	0.15	0.73
	150	35*20	0.15	0.75
		22*40	0.15	0.88
		25*30	0.15	0.88
	180	30*25	0.15	0.88
		35*20	0.15	0.80
		22*45	0.15	0.98
	220	25*35	0.15	0.98
		30*30	0.15	0.98
		35*25	0.15	0.98
	270	22*50	0.15	1.10
		25*40	0.15	1.10
		30*30	0.15	1.10
	330	35*25	0.15	1.10
		25*45	0.15	1.22
		30*35	0.15	1.22
	390	35*30	0.15	1.22
		25*50	0.15	1.44
		30*40	0.15	1.44
470	35*30	0.15	1.44	
	25*60	0.15	1.51	
	30*45	0.15	1.60	
560	35*35	0.15	1.60	
	30*50	0.15	1.90	
	35*40	0.15	1.90	
680	30*60	0.15	2.10	
680	35*45	0.15	2.12	
680	35*60	0.15	2.27	

LM series

■ STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size ΦDxL(mm)	tanδ	Rated ripple current (Arms/105°C,120Hz)
420(2T)	47	22*20	0.20	0.37
	56	25*20	0.20	0.42
	68	22*25	0.20	0.50
	82	25*20	0.20	0.46
		22*25	0.20	0.64
		25*25	0.20	0.58
		30*20	0.20	0.53
		22*30	0.20	0.70
		25*25	0.20	0.70
	100	30*20	0.20	0.59
		22*35	0.20	0.75
		25*30	0.20	0.75
	120	30*25	0.20	0.73
		35*20	0.20	0.67
		22*40	0.20	0.88
		25*35	0.20	0.88
		30*25	0.20	0.88
		22*45	0.20	0.95
	180	25*35	0.20	0.95
		30*30	0.20	0.95
		35*25	0.20	0.94
	220	22*50	0.20	1.10
		25*45	0.20	1.10
		30*35	0.20	1.10
		35*25	0.20	1.10
		25*50	0.20	1.22
		30*40	0.20	1.22
	270	35*30	0.20	1.22
		25*60	0.20	1.41
		30*45	0.20	1.45
	330	35*35	0.20	1.45
		30*50	0.20	1.55
		35*40	0.20	1.55
	390	30*60	0.20	1.79
	470	35*45	0.20	1.90
	560	35*50	0.20	2.15
680	35*60	0.20	2.27	
450(2W)	56	22*25	0.20	0.40
	68	22*30	0.20	0.53
	82	25*25	0.20	0.50
		22*30	0.20	0.64
	100	25*25	0.20	0.64
		22*35	0.20	0.69
		25*30	0.20	0.69
		30*25	0.20	0.64
	120	22*40	0.20	0.80
		25*30	0.20	0.80
		30*25	0.20	0.80
		35*25	0.20	0.73
	150	22*45	0.20	0.88
		25*35	0.20	0.88
		30*30	0.20	0.88
		35*25	0.20	0.75
	180	22*50	0.20	1.00
		25*40	0.20	1.00
		30*30	0.20	1.00
		25*45	0.20	1.12
	220	30*35	0.20	1.12
		35*30	0.20	1.12
		25*60	0.20	1.18
	270	30*40	0.20	1.28
		35*35	0.20	1.28
		30*50	0.20	1.45
	330	35*40	0.20	1.45
		30*60	0.20	1.51
	390	35*40	0.20	1.55
	470	35*50	0.20	1.85
	560	35*60	0.20	1.91

WV (V _{dc})	Cap (μF)	Size ΦDxL(mm)	tanδ	Rated ripple current (Arms/105°C,120Hz)
500(2H)	47	22*25	0.20	0.51
	56	22*30	0.20	0.58
	68	25*25	0.20	0.65
	82	22*35	0.20	0.72
		25*30	0.20	0.74
	100	22*45	0.20	0.83
		30*25	0.20	0.82
		22*50	0.20	0.93
	120	25*35	0.20	0.93
		30*30	0.20	0.91
		25*45	0.20	1.08
		30*35	0.20	1.04
	150	35*25	0.20	0.99
		25*50	0.20	1.20
		30*40	0.20	1.17
		35*30	0.20	1.10
	180	30*45	0.20	1.33
		35*35	0.20	1.23
		30*50	0.20	1.50
	270	35*40	0.20	1.42
330	35*45	0.20	1.60	
390	35*50	0.20	1.78	
470	35*60	0.20	2.03	
550(2J)	82	22*35	0.20	0.72
	100	25*30	0.20	0.74
		22*45	0.20	0.83
		25*35	0.20	0.85
	120	30*25	0.20	0.82
		22*50	0.20	0.93
		25*40	0.20	0.95
		30*30	0.20	0.91
	150	35*25	0.20	0.88
		25*45	0.20	1.08
		30*35	0.20	1.04
		25*50	0.20	1.20
	180	30*40	0.20	1.17
		35*30	0.20	1.10
		30*45	0.20	1.33
	270	35*35	0.20	1.23
330	30*50	0.20	1.50	
390	35*40	0.20	1.42	
470	35*45	0.20	1.60	
560	35*50	0.20	1.64	
680	35*60	0.20	2.03	

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