

MK series

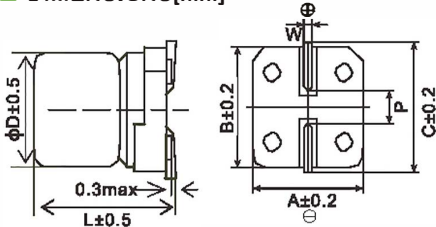
- Endurance: +105°C 2,000 ~ 3,000 hours
- Designed for surface mounting on high density PC board
- RoHS Compliant



SPECIFICATIONS

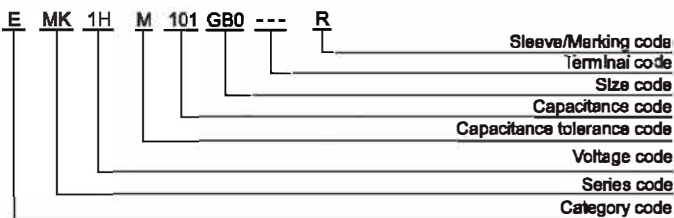
Items	Characteristics												
Category Temperature Range	-40~+105°C(8.3~450V _{dc})												
Rated Voltage Range	6.3~450V _{dc}												
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)												
Leakage Current	6.3~100V _{dc}						160~450V _{dc}						(at 20°C)
	I ≤ 0.01CV or 3μA, whichever is greater. (2 minutes)						I ≤ 0.04CV + 100μA (1 minute)						
Where, I: Max. leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage (V)													(at 20°C)
Dissipation Factor (tanδ)	Rated Voltage(V _{dc})	6.3	10	16	25	35	50	63	80	100	160~250	400~450	(at 20°C, 120Hz)
	tanδ (max.)	D80~E80	0.30	0.24	0.20	0.16	0.14	0.12	0.12	0.12	0.12	-	
													(at 20°C, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V _{dc})	6.3	10	16	25	35	50	63	80	100	160~250	400~450	(at 120Hz)
	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	2	2	2	6	6	
	Z(-40°C)/Z(+20°C)	10	8	6	4	3	3	3	3	3	10	18	
Endurance	The specifications listed below shall be met when the capacitors are restored to 20°C after rated voltage is applied for a specified period of time at 105°C.												
	Load Life	2,000 hours(160~450V _{dc} : 3,000 hours)											
	Capacitance Change	≤±20% of the initial value											
	Dissipation Factor (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 leaving them under no load at 105°C for 1,000 hours (6.3~100V _{dc} : 500 hours).												
	Capacitance Change	≤±20% of the initial value											
	Dissipation Factor (tanδ)	≤200% of the initial specified value											
	Leakage Current	≤200% of the initial specified value											

DIMENSIONS[mm]



Size code	D	L	A	B	C	W	P
D80	5	7.7	5.3	5.3	5.9	0.5~0.8	1.4
E80	8.3	7.7	8.6	8.8	7.2	0.5~0.8	1.9
E80	8.3	10.5	8.8	8.6	7.2	0.5~0.8	1.9
F80	8	10.5	8.3	8.3	9.0	0.7~1.1	3.1
F80	8	12.5	8.3	8.3	9.0	0.7~1.1	3.1
F80	8	13.5	8.3	8.3	9.0	0.7~1.1	3.1
F80	8	15.5	8.3	8.3	9.0	0.7~1.1	3.1
G80	10	10.5	10.3	10.3	11.0	0.7~1.1	4.5
G80	10	12.5	10.3	10.3	11.0	0.7~1.1	4.5
G80	10	13.5	10.3	10.3	11.0	0.7~1.1	4.5
G80	10	16.5	10.3	10.3	11.0	0.7~1.1	4.5
W80	12.5	13.5	13.0	13.0	13.7	1.0~1.3	4.5
W80	12.5	16.0	13.0	13.0	13.7	1.0~1.3	4.5
W80	12.5	21.0	13.0	13.0	13.7	1.0~1.3	4.5
L80	16	16.5	17.0	17.0	18.0	1.0~1.3	6.5
L80	16	21.5	17.0	17.0	18.0	1.0~1.3	6.5
M80	18	18.5	19.0	19.0	20.0	1.0~1.3	8.5
M80	18	21.5	19.0	19.0	20.0	1.0~1.3	8.5

PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Rated voltage(V _{dc})	Freq.(Hz)	120	1k	10k	100k
6.3~450		0.50	0.80	0.90	1.00

Surface Mount Type

MK series

■ STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size code	tanδ	Rated ripple current (mA _{rms} /105°C, 100kHz)
6.3(0J)	100	D80	0.30	105
	220	E80	0.30	160
	330	FB0	0.40	340
	1000	GB0	0.40	860
10(1A)	33	D80	0.24	105
	100	E80	0.24	175
	220	E80	0.24	180
	330	FB0	0.30	340
	470	FB0	0.30	360
16(1C)	820	GB0	0.30	860
	47	D80	0.20	105
	100	E80	0.20	175
	150	E80	0.20	190
	220	FB0	0.26	500
25(1E)	330	FB0	0.26	545
	470	GB0	0.26	800
	33	D80	0.16	105
	47	E80	0.16	180
35(1V)	100	E80	0.16	205
	220	FB0	0.16	550
	330	GB0	0.16	780
	470	GD0	0.16	875
	50(1H)	10	D80	0.14
22		D80	0.14	110
47		E80	0.14	210
100		FB0	0.14	575
220		GB0	0.14	835
63(1J)	330	GD0	0.14	900
	10	D80	0.12	90
	22	E80	0.12	175
	33	E80	0.12	180
	47	FB0	0.12	540
	100	GB0	0.12	700
80(1B)	220	WE0	0.12	900
	330	WG5	0.12	1180
	10	D80	0.12	85
	22	E80	0.12	150
	33	FB0	0.12	375
	47	FB0	0.12	450
100(1K)	100	GB0	0.12	575
	220	WE0	0.12	890
	10	E80	0.12	140
	22	FB0	0.12	375
	33	FB0	0.12	450
	47	GB0	0.12	575
160(2C)	100	GD0	0.12	600
	150	WE0	0.12	800
	220	WG5	0.12	960
	4.7	D80	0.12	70
	10	E80	0.12	135
	22	FB0	0.12	345
200(2D)	33	GB0	0.12	560
	47	GB0	0.12	575
	100	WE0	0.12	680
	2.2	E80	0.20	28
	1.5	EB0	0.20	36
250(2E)	1.5	EB0	0.20	44
	2.2	FB0	0.20	52
	3.3	FB0	0.20	64
	3.3	GB0	0.20	72
	3.9	FE0	0.20	72
	3.9	GB0	0.20	76
	4.7	FB0	0.20	78
	4.7	FD0	0.20	80
	4.7	GB0	0.20	84
	5.6	FD0	0.20	96
400(2G)	6.8	FE0	0.20	108
	8.2	FG0	0.20	130
	10	GH0	0.20	156
	10	LH0	0.20	176
	15	WG5	0.20	184
	15	LH0	0.20	210
	22	LN0	0.20	260
	33	MN0	0.20	280
	2.2	GB0	0.20	50
	3.3	WE0	0.20	80
450(2W)	4.7	WE0	0.20	96
	10	LH0	0.20	170
	15	LN0	0.20	200
	22	LN0	0.20	240

WV (V _{dc})	Cap (μF)	Size code	tanδ	Rated ripple current (mA _{rms} /105°C, 100kHz)
160(2C)	10	GB0	0.15	90
	15	GB0	0.15	136
	22	GE0	0.15	180
	22	WE0	0.15	200
	33	GH0	0.15	240
	33	WE0	0.15	310
	47	WG5	0.15	420
	47	LH0	0.15	520
	68	LN0	0.15	660
	68	MH0	0.15	660
200(2D)	100	LN0	0.15	780
	100	MN0	0.15	780
	10	GB0	0.15	120
	15	GB0	0.15	164
	22	GE0	0.15	200
	22	WG5	0.15	236
	33	GH0	0.15	260
	33	WG5	0.15	300
	47	WM5	0.15	440
	47	LN0	0.15	556
250(2E)	68	LN0	0.15	680
	2.2	EB0	0.15	56
	3.3	EB0	0.15	68
	4.7	FB0	0.15	96
	4.7	GB0	0.15	104
	10	WE0	0.15	184
	22	LH0	0.15	364
	33	LN0	0.15	470
	33	MH0	0.15	470
	47	MN0	0.15	580
400(2G)	1	E80	0.20	28
	1.5	EB0	0.20	36
	2.2	EB0	0.20	44
	2.2	FB0	0.20	52
	3.3	FB0	0.20	64
	3.3	GB0	0.20	72
	3.9	FE0	0.20	72
	3.9	GB0	0.20	76
	4.7	FB0	0.20	78
	4.7	FD0	0.20	80
450(2W)	4.7	GB0	0.20	84
	5.6	FD0	0.20	96
	6.8	FE0	0.20	108
	8.2	FG0	0.20	130
	10	GH0	0.20	156
	10	LH0	0.20	176
	15	WG5	0.20	184
	15	LH0	0.20	210
	22	LN0	0.20	260
	33	MN0	0.20	280

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