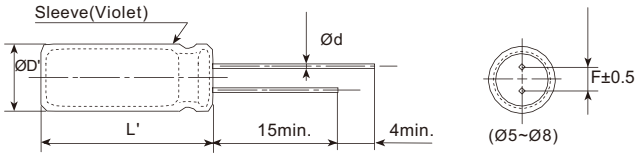
RM series

- Endurance: 10,000 hours at 105°C
- Miniaturized,long life
- **RoHS Compliant**

SPECIFICATIONS

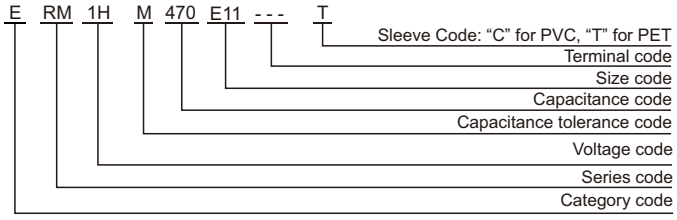
Items	Characteristics								
Category Temperature Range	-40~+105°C								
Rated Voltage Range	10~100 Vdc								
Capacitance Tolerance	±20%(M)								(at 20°C,120Hz)
Leakage Current	I≤0.01CV or 3μA, whichever is greater. Where,I:Max.leakage current (μA),C:Nominal capacitance (μF),V: Rated voltage (V)								(at 20°C after 2 minutes)
Dissipation Factor (tanδ)	Rated Voltage(Vdc)	10	16	25	35	50	63	100	
	Dissipation Factor (Max.)	0.45	0.35	0.30	0.22	0.19	0.17	0.15	
	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase.								(at 20°C,120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(Vdc)	10	16	25	35	50	63	100	
	Z(-25°C)/Z(+20°C)	8	6	4		3			
	Z(-40°C)/Z(+20°C)	13	10	8		7			(at 120Hz)
Endurance	The specifications listed below shall be satisfied when the capacitors are restored to 20°C after DC voltage plus rated ripple current is applied for 10,000 hours at 105°C.								
	Capacitance Change	≤±25% of the initial value							
	Dissipation Factor	≤300% 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.								
	Capacitance Change	≤±20% of the initial value(6.3V, 10V: ≤±30%)							
	Dissipation Factor	≤200% of the initial specified value							
	Leakage Current	≤200% of the initial specified value							

DIMENSIONS[mm]



ØD	5	6.3	8
Ød	0.5	0.5	0.5
F	2.0	2.5	3.5
ØD'	ØD+0.5max.		
L'	L+2max.		

PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Freq.(Hz) / Cap.(μF)	120	1k	10k	100k
Cap.<22	0.42	0.60	0.80	1.00
22≤Cap.<47	0.55	0.75	0.90	1.00
Cap.≥47	0.70	0.85	0.95	1.00

RM series

STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Size ΦDxL(mm)	Rated ripple current (mArms/105°C,100kHz)	Part Number
10	100	5×11	130	ERM1AM101D11---T
	220	6.3×11	210	ERM1AM221E11---T
	330	6.3×12	220	ERM1AM331E12---T
	330	8×11	330	ERM1AM331F11---T
16	47	5×11	130	ERM1CM470D11---T
	100	6.3×11	210	ERM1CM101E11---T
	220	6.3×11	250	ERM1CM221E11---T
	220	8×11	330	ERM1CM221F11---T
25	33	5×11	130	ERM1EM330D11---T
	47	5×11	130	ERM1EM470D11---T
	68	5×12	140	ERM1EM680D12---T
	100	6.3×11	210	ERM1EM101E11---T
35	33	5×11	130	ERM1VM330D11---T
	47	6.3×11	210	ERM1VM470E11---T
	100	6.3×12	260	ERM1VM101E12---T
	100	8×11	330	ERM1VM101F11---T
	220	8×12	380	ERM1VM221F12---T
50	0.47	5×11	12	ERM1HMR47D11---T
	1	5×11	25	ERM1HM010D11---T
	2.2	5×11	35	ERM1HM2R2D11---T
	3.3	5×11	70	ERM1HM3R3D11---T
	4.7	5×11	80	ERM1HM4R7D11---T
	10	5×11	90	ERM1HM100D11---T
	22	5×12	110	ERM1HM220D12---T
	33	6.3×11	190	ERM1HM330E11---T
	47	6.3×11	190	ERM1HM470E11---T
	100	8×12	270	ERM1HM101F12---T
63	10	5×11	80	ERM1JM100D11---T
	22	6.3×11	170	ERM1JM220E11---T
	33	6.3×12	170	ERM1JM330E12---T
	47	8×12	240	ERM1JM470F12---T
	100	8×12	270	ERM1JM101F12---T
100	0.47	5×11	20	ERM1KMR47D11---T
	1	5×11	40	ERM1KM010D11---T
	2.2	5×11	50	ERM1KM2R2D11---T
	3.3	5×11	60	ERM1KM3R3D11---T
	4.7	5×11	70	ERM1KM4R7D11---T
	10	6.3×12	150	ERM1KM100E12---T
	22	8×12	230	ERM1KM220F12---T

※ Specifications subject to change without notice.