

RE series

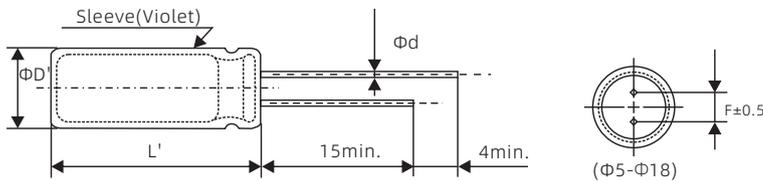


- Endurance: 2,000 ~ 4,000 hours at 105°C
- High frequency, low impedance
- Suitable for switching power, UPS, power sources, etc.
- RoHS Compliant

SPECIFICATIONS

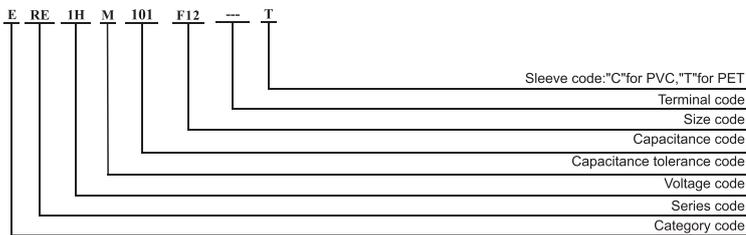
Items	Characteristics											
Category Temperature Range	-40~+105°C											
Rated Voltage Range	6.3~120Vdc											
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)											
Leakage Current	≤0.01CV or 3μA, whichever is greater. Where, I:Max. leakage current (μA), C:Nominal capacitance (μF), V:Rated voltage (V)											
Dissipation Factor (tanδ)	Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	80	100	120	(at 20°C, 120Hz)
	Dissipation Factor(Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.08	0.12	
	When nominal capacitance exceeds 1,000 μF, add 0.02 to the value above for each 1,000 μF increase.											
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	80	100	120	(120Hz)
	Z(-25°C)/Z(+20°C)	4	3	2						3		
	Z(-40°C)/Z(+20°C)	8	6	4	3						6	
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 a specified period of time at 105°C.											
	Capacitance Change	≤±25% of the initial value									Case Dia.(mm)	Load life (hours)
	Dissipation Factor	≤200% of the initial specified value									∅D=8&10	3,000
	Leakage Current	≤The initial specified value									∅D≥12.5	4,000
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	≤±25% of the initial value										
	Dissipation Factor	≤200% of the initial specified value										
	Leakage Current	≤200% of the initial specified value										

DIMENSIONS [mm]



∅D	5	6.3	8	10	12.5	13	16	18
∅d	0.5	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	5.0	7.5	7.5
∅D'	∅D+0.5max.							
L'	L+2max.							

PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Cap. (μF) \ Freq. (Hz)	120	1K	10K	100K
Cap. <220	0.40	0.75	0.90	1.00
220≤Cap. <680	0.50	0.85	0.94	1.00
680≤Cap. <2,200	0.60	0.87	0.95	1.00
2,200≤Cap. <4,700	0.75	0.90	0.95	1.00
Cap. ≥4,700	0.85	0.95	0.98	1.00

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■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size ΦD×L(mm)	Impeance (Ωmax/20°C,100kHz)	Rated Ripple Current (mA _{rms} /105°C,100kHz)	Part Number
6.3	330	8×11	0.130	650	ERE0JM331F11---T
	470	8×11	0.130	650	ERE0JM471F11---T
	680	8×12	0.130	680	ERE0JM681F12---T
	1,000	8×12	0.130	720	ERE0JM102F12---T
	1,000	10×13	0.080	870	ERE0JM102G13---T
	1,500	10×16	0.060	1,210	ERE0JM152G16---T
	2,200	10×20	0.045	1,400	ERE0JM222G20---T
	3,300	12.5×20	0.035	1,900	ERE0JM332W20---T
	4,700	12.5×25	0.030	2,130	ERE0JM472W25---T
10	470	8×11	0.130	650	ERE1AM471F11---T
	680	8×12	0.130	650	ERE1AM681F12---T
	1,000	8×16	0.087	850	ERE1AM102F16---T
	1,000	10×16	0.060	1,210	ERE1AM102G16---T
	1,500	10×16	0.050	1,300	ERE1AM152G16---T
	2,200	10×20	0.045	1,400	ERE1AM222G20---T
	3,300	13×25	0.030	2,130	ERE1AM332K25---T
16	220	8×11	0.250	650	ERE1CM221F11---T
	330	8×11	0.130	650	ERE1CM331F11---T
	470	8×12	0.130	650	ERE1CM471F12---T
	470	10×13	0.080	870	ERE1CM471G13---T
	560	8×12	0.130	650	ERE1CM561F12---T
	680	8×16	0.087	850	ERE1CM681F16---T
	680	10×13	0.080	870	ERE1CM681G13---T
	1,000	8×20	0.060	1,210	ERE1CM102F20---T
	1,000	10×13	0.080	870	ERE1CM102G13---T
	1,500	10×20	0.045	1,400	ERE1CM152G20---T
	2,200	13×20	0.035	1,900	ERE1CM222K20---T
	3,300	12.5×35	0.027	2,500	ERE1CM332W35---T
	25	100	6.3×11	0.250	340
220		6.3×11	0.210	350	ERE1EM221E11---T
220		8×12	0.130	650	ERE1EM221F12---T
330		8×12	0.130	650	ERE1EM331F12---T
470		8×16	0.087	840	ERE1EM471F16---T
470		10×13	0.080	870	ERE1EM471G13---T
560		10×13	0.078	960	ERE1EM561G13---T
680		8×16	0.080	870	ERE1EM681F16---T
680		10×16	0.060	1,210	ERE1EM681G16---T
1,000		10×20	0.045	1,400	ERE1EM102G20---T
1,000		12.5×13	0.050	1,250	ERE1EM102W13---T
1,500		13×20	0.035	1,900	ERE1EM152K20---T
2,200		12.5×25	0.030	2,130	ERE1EM222W25---T
3,300		12.5×30	0.025	2,600	ERE1EM332W30---T
3,300		16×20	0.025	2,600	ERE1EM332L20---T
4,700		16×25	0.023	2,860	ERE1EM472L25---T

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35	56	5×12	0.800	200	ERE1VM560D12--T
	68	5×12	0.720	220	ERE1VM680D12--T
	100	6.3×11	0.350	350	ERE1VM101E11---T
	100	8×11	0.130	650	ERE1VM101F11---T
	150	8×12	0.130	650	ERE1VM151F12---T
	220	8×12	0.130	650	ERE1VM221F12---T
	330	8×16	0.072	840	ERE1VM331F16---T
	330	10×13	0.080	870	ERE1VM331G13---T
	470	10×16	0.060	1,210	ERE1VM471G16---T
	560	10×16	0.060	1,210	ERE1VM561G16--T
	680	10×20	0.045	1,400	ERE1VM681G20--T
	680	12.5×16	0.058	1,380	ERE1VM681W16---T
	1,000	12.5×20	0.035	1,900	ERE1VM102W20---T
	1,500	12.5×25	0.030	2,124	ERE1VM152W25---T
2,200	16×25	0.029	2,450	ERE1VM222L25---T	
50	47	6.3×11	0.300	295	ERE1HM470E11--T
	100	6.3×12	0.280	375	ERE1HM101E12--T
	100	8×12	0.130	620	ERE1HM101F12---T
	150	8×12	0.130	620	ERE1HM151F12---T
	220	8×16	0.100	840	ERE1HM221F16---T
	220	10×16	0.084	1,050	ERE1HM221G16---T
	330	10×16	0.080	1,100	ERE1HM331G16--T
	470	10×20	0.075	1,200	ERE1HM471G20---T
	560	12.5×16	0.061	1,750	ERE1HM561W16---T
	820	12.5×20	0.040	1,900	ERE1HM821W20---T
	820	16×20	0.032	2,130	ERE1HM821L20--T
	1,000	12.5×25	0.034	2,100	ERE1HM102W25---T
1,000	16×20	0.034	2,100	ERE1HM102L20---T	
63	68	8×12	0.510	235	ERE1JM680F12---T
	100	8×12	0.500	235	ERE1JM101F12---T
	150	10×13	0.380	320	ERE1JM151G13---T
	220	10×16	0.170	450	ERE1JM221G16---T
	470	13×20	0.085	950	ERE1JM471K20--T
	560	16×18	0.079	1,020	ERE1JM561L18---T
	680	16×20	0.070	1,280	ERE1JM681L20---T
	820	12.5×30	0.071	1,200	ERE1JM821W30---T
	820	16×20	0.070	1,280	ERE1JM821L20--T
	1,000	16×25	0.045	1,900	ERE1JM102L25---T
80	56	8×12	0.490	260	ERE1BM560F12---T
	68	8×12	0.400	290	ERE1BM680F12---T
	100	10×13	0.300	330	ERE1BM101G13---T
	150	10×16	0.240	440	ERE1BM151G16---T
	220	10×20	0.180	510	ERE1BM221G20---T
	220	12.5×16	0.180	530	ERE1BM221W16---T

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80	330	12.5×20	0.150	760	ERE1BM331W20---T
	470	12.5×25	0.072	980	ERE1BM471W25---T
	560	16×20	0.070	1,050	ERE1BM561L20---T
	680	16×25	0.065	1,250	ERE1BM681L25---T
	1,000	16×35	0.052	1,320	ERE1BM102L35---T
100	22	6.3×12	0.920	150	ERE1KM220E12--T
	47	8×12	0.910	260	ERE1KM470F12---T
	47	10×13	0.340	315	ERE1KM470G13---T
	68	8×16	0.320	360	ERE1KM680F16---T
	68	10×13	0.320	360	ERE1KM680G13---T
	100	10×16	0.200	450	ERE1KM101G16---T
	150	10×20	0.170	500	ERE1KM151G20--T
	220	13×20	0.095	930	ERE1KM221K20---T
	330	12.5×25	0.092	950	ERE1KM331W25---T
	330	16×20	0.088	1,050	ERE1KM331L20---T
	470	16×25	0.078	1,250	ERE1KM471L25---T
	470	18×20	0.070	1,200	ERE1KM471M20---T
120	10	6.3×12	6.000	75	ERE2BM100E12---T
	15	6.3×12	5.000	96	ERE2BM150E12---T
	22	8×12	4.000	123	ERE2BM220F12---T
	33	8×16	3.500	212	ERE2BM330F16---T
	33	10×13	3.000	212	ERE2BM330G13--T
	47	8×20	2.800	250	ERE2BM470F20---T
	47	10×16	2.800	265	ERE2BM470G16--T
	56	10×16	2.500	270	ERE2BM560G16--T
	68	10×16	2.200	270	ERE2BM680G16--T
	82	10×20	2.000	290	ERE2BM820G20--T
	100	10×25	1.700	360	ERE2BM101G25--T
	100	12.5×16	1.900	370	ERE2BM101W16---T
	120	12.5×20	1.500	495	ERE2BM121W20---T
	150	12.5×25	1.100	540	ERE2BM151W25---T
	220	16×20	0.820	660	ERE2BM221L20---T
	270	16×25	0.600	750	ERE2BM271L25---T
	270	18×20	0.600	750	ERE2BM271M20---T
	330	16×30	0.450	810	ERE2BM331L30---T
	330	18×25	0.450	810	ERE2BM331M25--T
	470	16×40	0.350	900	ERE2BM471L40---T
470	18×30	0.350	900	ERE2BM471M30--T	

※ Specifications subject to change without notice