

RV series

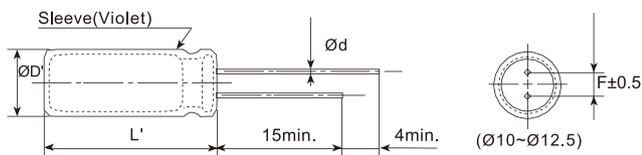
- High stability, high conductivity, high reliability
- Low impedance, small size
- Endurance +105°C 4,000~5,000 hours
- RoHS Compliant



SPECIFICATIONS

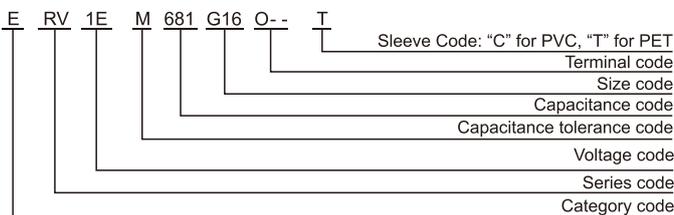
Items	Characteristics					
Category Temperature Range	-55~+105°C					
Rated Voltage Range	6.3~35 V _{dc}					
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)					
Leakage Current	I ≤ 0.01CV or 3μA, whichever is greater. Where, I:Max.leakage current (μA),C:Nominal capacitance (μF),V: Rated voltage (V) (at 20°C after 2 minutes)					
Dissipation Factor (tanδ)	Rated Voltage(V _{dc})	6.3	10	16	25	35
	tanδ (max.)	0.22	0.19	0.16	0.14	0.12
	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(V _{dc})	6.3	10	16	25	35
	Z(-55°C)/Z(+20°C)	8	6	4	3	
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 a specified period of time (Ø10: 4,000h; Ø12.5: 5,000h) at 105°C.					
	Capacitance Change	≤±20% of the initial value (6.3V, 10V: ±30%)				
	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	≤±20% of the initial value(6.3V, 10V:±30%)				
	D.F. (tanδ)	≤200% of the initial specified value				
	Leakage Current	≤200% of the initial specified value				

DIMENSIONS[mm]



ØD	10	12.5
Ød	0.6	0.6
F	5.0	5.0
ØD'	ØD+0.5max.	
L'	L+2max.	

PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Freq.(Hz)	120	1k	10k	100k
Cap.<680	0.50	0.85	0.94	1.00
680 Cap.<2200	0.60	0.87	0.95	1.00
2200 Cap.<4700	0.75	0.90	0.95	1.00
Cap. 4700	0.85	0.95	0.98	1.00

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.

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■ STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size D×L(mm)	tanδ	Impedance (Ω _{max} /20°C,100kHz)	Rated ripple current (mA _{rms} /105°C,100kHz)	Part Number
6.3(0J)	1500	10×12.5	0.22	0.063	960	ERV0JM152G1BOT
	1800	10×16	0.22	0.049	1240	ERV0JM182G16OT
	2700	10×20	0.24	0.035	1550	ERV0JM272G20OT
	3300	10×25	0.26	0.033	1740	ERV0JM332G25OT
	4700	12.5×20	0.28	0.029	1890	ERV0JM472W20OT
	6800	12.5×25	0.32	0.022	2350	ERV0JM682W25OT
10(1A)	1000	10×12.5	0.19	0.063	960	ERV1AM102G1BOT
	1500	10×16	0.19	0.049	1240	ERV1AM152G16OT
	2200	10×20	0.21	0.035	1550	ERV1AM222G20OT
	2700	10×25	0.21	0.033	1740	ERV1AM272G25OT
	3300	12.5×20	0.23	0.029	1890	ERV1AM332W20OT
	4700	12.5×25	0.25	0.022	2350	ERV1AM472W25OT
16(1C)	820	10×12.5	0.16	0.063	960	ERV1CM821G1BOT
	1000	10×16	0.16	0.049	1240	ERV1CM102G16OT
	1500	10×20	0.16	0.035	1550	ERV1CM152G20OT
	1800	10×25	0.16	0.033	1740	ERV1CM182G25OT
	2200	12.5×20	0.18	0.029	1890	ERV1CM222W20OT
	3300	12.5×25	0.20	0.022	2350	ERV1CM332W25OT
25(1E)	470	10×12.5	0.14	0.063	960	ERV1EM471G1BOT
	680	10×16	0.14	0.049	1240	ERV1EM681G16OT
	1000	10×20	0.14	0.035	1550	ERV1EM102G20OT
	1200	10×25	0.14	0.033	1740	ERV1EM122G25OT
	1500	12.5×20	0.14	0.029	1890	ERV1EM152W20OT
	2200	12.5×25	0.16	0.022	2350	ERV1EM222W25OT
35(1V)	330	10×12.5	0.12	0.063	960	ERV1VM331G1BOT
	470	10×16	0.12	0.049	1240	ERV1VM471G16OT
	680	10×20	0.12	0.035	1550	ERV1VM681G20OT
	820	10×25	0.12	0.033	1740	ERV1VM821G25OT
	1000	12.5×20	0.12	0.029	1890	ERV1VM102W20OT
	1500	12.5×25	0.12	0.022	2350	ERV1VM152W25OT