

RK series

- Endurance: +105°C 2,000 hours
- Especially designed for charger
- Miniaturized, high voltage
- RoHS Compliant

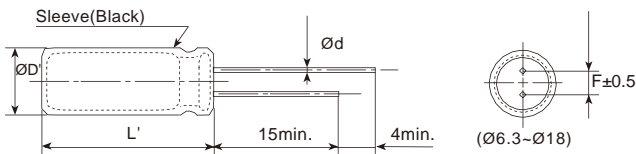
Upgrade



SPECIFICATIONS

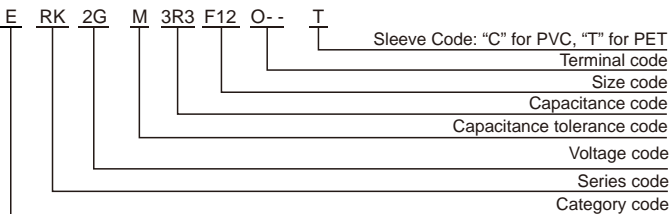
Items	Characteristics					
Category Temperature Range	-40~+105°C(400 V _{dc})		-25~+105°C(450~550 V _{dc})			
Rated Voltage Range	400~550 V _{dc}					
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)					
Leakage Current	400~450 V _{dc}	500~550 V _{dc}		Where, I:Max.leakage current (μA), C:Nominal capacitance (μF), V: Rated voltage (V) (at 20°C after 2 minutes)		
	I 0.02CV+10μA	I 0.03CV+10μA				
Dissipation Factor (tan δ)	Rated Voltage(V _{dc})	400	450	500	550	(at 20°C, 120Hz)
	tan δ (max.)	0.15	0.20	0.24	0.24	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V _{dc})	400	450	500	550	(at 120Hz)
	Z(-25°C)/Z(+20°C)	3	5	6	15	
	Z(-40°C)/Z(+20°C)	6	-	-	-	
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 2,000 hours at 105°C.					
	Rated voltage(V _{dc})	400~500 V _{dc}			550 V _{dc}	
	Capacitance Change	±20% of the initial value			±30% of the initial value	
	D.F. (tan δ)	200% of the initial specified value			300% of the initial specified value	
	Leakage Current	The initial specified value			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				
	D.F. (tan δ)	200% of the initial specified value				
	Leakage Current	200% of the initial specified value				

DIMENSIONS[mm]



ØD	6.3	8	10	12.5	16	18
Ød	0.5	0.5	0.6	0.6	0.8	0.8
F	2.5	3.5	5.0	5.0	7.5	7.5
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
WV(V _{dc})	0.50	0.80	0.90	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.

RK series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size DxL(mm)	tan	Rated ripple current (mA _{rms} /105°C, 100kHz)	Part Number
400(2G)	2.2	6.3x9	0.15	64	ERK2GM2R2E09OT
		8x7	0.15	66	ERK2GM2R2F07OT
	3.3	6.3x11	0.15	74	ERK2GM3R3E11OT
		8x9	0.15	76	ERK2GM3R3F09OT
		8x11	0.15	80	ERK2GM3R3F11OT
	4.7	6.3x11	0.15	90	ERK2GM4R7E11OT
		8x9	0.15	94	ERK2GM4R7F09OT
		8x11	0.15	98	ERK2GM4R7F11OT
	6.8	8x11	0.15	126	ERK2GM6R8F11OT
		10x9	0.15	132	ERK2GM6R8G09OT
	8.2	8x11	0.15	145	ERK2GM8R2F11OT
		10x9	0.15	150	ERK2GM8R2G09OT
		10x10	0.15	158	ERK2GM8R2G10OT
	10	8x12	0.15	165	ERK2GM100F12OT
		8x14	0.15	180	ERK2GM100F14OT
		10x9	0.15	172	ERK2GM100G09OT
	15	10x12	0.15	210	ERK2GM150G12OT
		10x14	0.15	230	ERK2GM150G14OT
	22	10x16	0.15	250	ERK2GM220G16OT
		12.5x16	0.15	300	ERK2GM220W16OT
	33	12.5x16	0.15	520	ERK2GM330W16OT
	47	12.5x22	0.15	650	ERK2GM470W22OT
		16x16	0.15	670	ERK2GM470L16OT
	56	13x25	0.15	780	ERK2GM560K25OT
		16x23	0.15	880	ERK2GM680L23OT
		18x18	0.15	880	ERK2GM680M18OT
	68	18x20	0.15	920	ERK2GM680M20OT
		2.2	6.3x11	0.20	65
8x9			0.20	72	ERK2WM2R2F09OT
3.3	8x9	0.20	82	ERK2WM3R3F09OT	
4.7	8x11	0.20	100	ERK2WM4R7F11OT	
	10x9	0.20	110	ERK2WM4R7G09OT	
6.8	10x9	0.20	130	ERK2WM6R8G09OT	
	10x10	0.20	148	ERK2WM6R8G10OT	
8.2	10x10	0.20	190	ERK2WM8R2G10OT	
	10x12	0.20	210	ERK2WM8R2G12OT	

WV (Vdc)	Cap (μF)	Size DxL(mm)	tan	Rated ripple current (mA _{rms} /105°C, 100kHz)	Part Number	
450(2W)	10	8x16	0.20	220	ERK2WM100F16OT	
		10x12	0.20	230	ERK2WM100G12OT	
		10x14	0.20	250	ERK2WM100G14OT	
	15	10x16	0.20	230	ERK2WM150G16OT	
		12.5x16	0.20	250	ERK2WM150W16OT	
	22	12.5x20	0.20	295	ERK2WM220W20OT	
		16x16	0.20	320	ERK2WM220L16OT	
	33	12.5x22	0.20	495	ERK2WM330W22OT	
		16x16	0.20	495	ERK2WM330L16OT	
		16x20	0.20	550	ERK2WM330L20OT	
	47	16x20	0.20	640	ERK2WM470L20OT	
		16x25	0.20	710	ERK2WM470L25OT	
	68	18x20	0.20	870	ERK2WM680M20OT	
		18x25	0.20	970	ERK2WM680M25OT	
	500(2H)	3.3	8x12	0.24	85	ERK2HM3R3F12OT
		4.7	8x12	0.24	110	ERK2HM4R7F12OT
10x9			0.24	110	ERK2HM4R7G09OT	
5.6		10x9	0.24	130	ERK2HM5R6G09OT	
6.8		10x10	0.24	150	ERK2HM6R8G10OT	
8.2		10x12	0.24	190	ERK2HM8R2G12OT	
10		10x16	0.24	225	ERK2HM100G16OT	
12		10x16	0.24	230	ERK2HM120G16OT	
15		10x18	0.24	250	ERK2HM150G18OT	
22		12.5x20	0.24	280	ERK2HM220W20OT	
550(2J)	3.3	8x12	0.24	85	ERK2JM3R3F12OT	
	4.7	10x10	0.24	110	ERK2JM4R7G10OT	
		10x12	0.24	120	ERK2JM4R7G12OT	
	5.6	10x12	0.24	130	ERK2JM5R6G12OT	
	6.8	10x12	0.24	150	ERK2JM6R8G12OT	
	8.2	10x14	0.24	190	ERK2JM8R2G14OT	
	10	10x16	0.24	225	ERK2JM100G16OT	
	12	10x20	0.24	235	ERK2JM120G20OT	
15	12.5x20	0.24	250	ERK2JM150W20OT		
22	12.5x25	0.24	280	ERK2JM220W25OT		

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