

WK series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size DxD(mm)	Rated ripple current (mA _{rms} /85°C, 120Hz)	Part Number	
160	47	12.5x20	280	EWK2CM470W20---T	
	68	12.5x20	360	EWK2CM680W20---T	
	100	12.5x25	470	EWK2CM101W25---T	
	150	16x20	520	EWK2CM151L20---T	
	180	16x25	600	EWK2CM181L25---T	
	220	16x30	780	EWK2CM221L30---T	
	270	18x30	860	EWK2CM271M30---T	
	330	18x35	1000	EWK2CM331M35---T	
	390	18x35	1020	EWK2CM391M35---T	
	470	18x40	1220	EWK2CM471M40---T	
200	0.47	6.3x11	10	EWK2DMR47E11---T	
	1	6.3x11	15	EWK2DM010E11---T	
	2.2	6.3x11	34	EWK2DM2R2E11---T	
	3.3	6.3x11	45	EWK2DM3R3E11---T	
	4.7	6.3x11	55	EWK2DM4R7E11---T	
	4.7	8x12	60	EWK2DM4R7F12---T	
	10	10x12	100	EWK2DM100G12---T	
	22	10x20	170	EWK2DM220G20---T	
	33	10x20	205	EWK2DM330G20---T	
	47	12.5x20	270	EWK2DM470W20---T	
	68	12.5x25	370	EWK2DM680W25---T	
	100	16x25	475	EWK2DM101L25---T	
	150	16x25	550	EWK2DM151L25---T	
	180	18x25	620	EWK2DM181M25---T	
	220	18x35	810	EWK2DM221M35---T	
270	18x35	870	EWK2DM271M35---T		
330	18x35	1000	EWK2DM331M35---T		
330	18x40	1020	EWK2DM331M40---T		
250	0.47	6.3x11	10	EWK2EMR47E11---T	
	1	6.3x11	16	EWK2EM010E11---T	
	2.2	6.3x11	34	EWK2EM2R2E11---T	
	3.3	6.3x11	42	EWK2EM3R3E11---T	
	3.3	8x12	46	EWK2EM3R3F12---T	
	4.7	6.3x11	50	EWK2EM4R7E11---T	
	4.7	8x12	55	EWK2EM4R7F12---T	
	10	10x12	100	EWK2EM100G12---T	
	10	10x16	105	EWK2EM100G16---T	
	22	10x20	170	EWK2EM220G20---T	
	33	10x20	200	EWK2EM330G20---T	
	33	12.5x20	230	EWK2EM330W20---T	
	47	12.5x20	270	EWK2EM470W20---T	
	47	12.5x25	295	EWK2EM470W25---T	
	68	16x25	382	EWK2EM680L25---T	
100	16x25	450	EWK2EM101L25---T		
100	16x30	515	EWK2EM101L30---T		
120	16x30	530	EWK2EM121L30---T		
150	16x30	570	EWK2EM151L30---T		
180	18x30	620	EWK2EM181M30---T		
350	0.47	6.3x11	15	EWK2VMR47E11---T	
	1	6.3x11	22	EWK2VM010E11---T	
	2.2	8x12	38	EWK2VM2R2F12---T	
	3.3	8x12	46	EWK2VM3R3F12---T	
	4.7	10x12	65	EWK2VM4R7G12---T	
	10	10x12	90	EWK2VM100G12---T	
	10	10x16	100	EWK2VM100G16---T	
	10	10x20	120	EWK2VM100G20---T	
	22	12.5x20	185	EWK2VM220W20---T	
	33	16x25	275	EWK2VM330L25---T	
	47	16x25	325	EWK2VM470L25---T	
	68	16x25	405	EWK2VM680L25---T	
	100	18x30	530	EWK2VM101M30---T	
	400	1	6.3x11	22	EWK2GM010E11---T
		2.2	8x12	38	EWK2GM2R2F12---T
3.3		10x12	54	EWK2GM3R3G12---T	
4.7		10x12	60	EWK2GM4R7G12---T	
4.7		10x16	75	EWK2GM4R7G16---T	

WV (Vdc)	Cap (μF)	Size DxD(mm)	Rated ripple current (mA _{rms} /85°C, 120Hz)	Part Number
400	10	10x16	100	EWK2GM100G16---T
	10	10x20	120	EWK2GM100G20---T
	22	12.5x25	205	EWK2GM220W25---T
	33	16x25	275	EWK2GM330L25---T
	47	16x25	325	EWK2GM470L25---T
	47	16x30	350	EWK2GM470L30---T
	56	16x30	385	EWK2GM560L30---T
	68	18x25	420	EWK2GM680M25---T
	82	18x30	475	EWK2GM820M30---T
	100	18x35	545	EWK2GM101M35---T
450	1	8x12	16	EWK2WM010F12---T
	2.2	8x12	32	EWK2WM2R2F12---T
	2.2	10x12	35	EWK2WM2R2G12---T
	3.3	10x12	40	EWK2WM3R3G12---T
	3.3	10x16	44	EWK2WM3R3G16---T
	4.7	10x12	50	EWK2WM4R7G12---T
	4.7	10x16	58	EWK2WM4R7G16---T
	4.7	10x20	65	EWK2WM4R7G20---T
	10	10x20	80	EWK2WM100G20---T
	10	12.5x20	92	EWK2WM100W20---T
	22	12.5x25	150	EWK2WM220W25---T
	22	16x25	165	EWK2WM220L25---T
	33	16x30	215	EWK2WM330L30---T
	47	16x30	260	EWK2WM470L30---T
	47	16x35	280	EWK2WM470L35---T
68	18x30	370	EWK2WM680M30---T	
82	18x35	390	EWK2WM820M35---T	
100	18x40	420	EWK2WM101M40---T	

Specifications subject to change without notice.

WH series

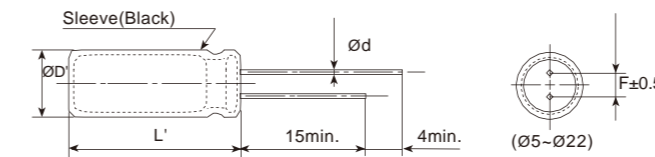
- Standard series for general purpose
- Wide temperature range from -40 °C to +105 °C
- Endurance: 2,000 hours at 105 °C
- RoHS Compliant



■ SPECIFICATIONS

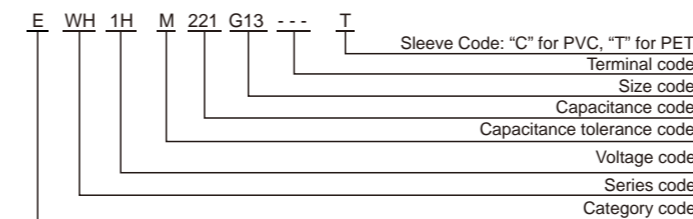
Items	Characteristics	
Category Temperature Range	-40~+105 °C (6.3~100 V _{dc})	-25~+105°C(160~500 V _{dc})
Rated Voltage Range	6.3~500 V _{dc}	
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)	
Leakage Current	6.3~100 V _{dc}	160~500 V _{dc}
	I 0.03CV or 4μA (at 1 minute) I 0.01CV or 3μA (at 2 minutes) Whichever is greater	CV 1,000 CV>1,000
Dissipation Factor (tan δ)	Rated Voltage(V _{dc})	6.3 10 16 25 35 50 63 100 160~250 350~500
	Dissipation Factor (Max.)	0.28 0.24 0.20 0.16 0.14 0.12 0.10 0.08 0.20 0.24
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V _{dc})	6.3 10 16 25 35 50 63 100 160~250 350~450 500
	Z(-25°C)/Z(+20°C)	5 4 3 2 3 6 8 (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 2,000 hours at 105°C.	
	Capacitance Change	±20% of the initial value
	Dissipation Factor	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.	
	Capacitance Change	±20% of the initial value
	Dissipation Factor	200% of the initial specified value
	Leakage Current	200% of the initial specified value

■ DIMENSIONS[mm]



ØD	5	6.3	8	10	12.5/13	16/18	22
Ød	0.5	0.5	0.5	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	10.0
ØD'	ØD+0.5max.						
L'	L+2max.						

■ PART NUMBERING SYSTEM



■ RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Cap.(μF)	Freq.(Hz)					
	50	120	300	1k	10k	100k
Cap.<10	0.65	1.00	1.35	1.75	2.30	2.50
10 Cap.<100	0.75	1.00	1.25	1.50	1.75	1.80
100 Cap.<1000	0.80	1.00	1.15	1.30	1.40	1.50
Cap. 1000	0.85	1.00	1.03	1.05	1.08	1.08

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