

CD11GK series

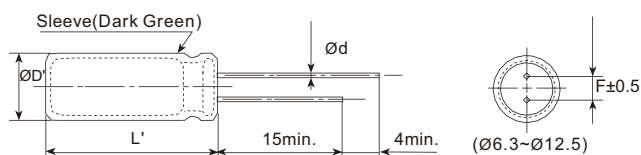
- Endurance: 12,000 ~ 20,000 hours at 105°C
- Extremely miniaturized, high ripple current
- Suitable for output circuit and input circuit of LED driving power.
- RoHS Compliant



SPECIFICATIONS

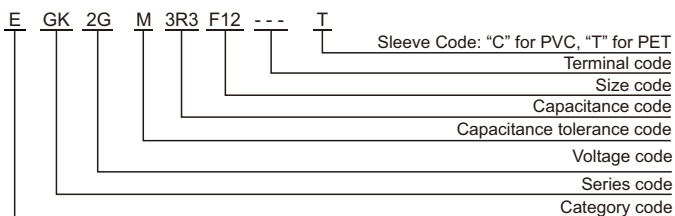
Items	Characteristics									
Category Temperature Range	-40~+105°C									
Rated Voltage Range	160~450 V _{dc}									
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)									
Leakage Current	160~400 V _{dc}	450 V _{dc}		Where, I: Max.leakage current (μA),C:Nominal capacitance (μF), V: Rated voltage (V) (at 20°C after 2 minutes)						
	I≤0.03CV+15μA	I≤0.03CV+25μA								
Dissipation Factor (tanδ)	Rated Voltage(V _{dc})	160	200	250	350	400	450	(at 20°C, 120Hz)		
	Dissipation Factor (Max.)	0.24	0.24	0.24	0.24	0.24	0.24			
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V _{dc})	160	200	250	350	400	450	(at 120Hz)		
	Z(-25°C)/Z(+20°C)	3	3	3	5	5	8			
	Z(-40°C)/Z(+20°C)	8	8	8	8	8	12			
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	≤±30% of the initial value				Size(mm)		Load life (hours)		
	Dissipation Factor	≤300% of the initial specified value				6.3×9	6.3×12	8×9	10×9	12,000
	Leakage Current	≤The initial specified value				8×12	8×16	8×20	10×12	15,000
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	≤±20% of the initial value								
	Dissipation Factor	≤200% of the initial specified value								
	Leakage Current	≤200% of the initial specified value								

DIMENSIONS[mm]



ØD	6.3	8	10	12.5
Ød	0.5	0.5	0.6	0.6
F	2.5	3.5	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
Rated voltage(V _{dc})				
160~450	0.50	0.80	0.90	1.00

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■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size ΦD×L(mm)	Rated ripple current (mA rms/105°C, 100kHz)	Part Number
160	2.2	6.3×9	76	EGK2CM2R2E09---T
	3.3	6.3×12	92	EGK2CM3R3E12---T
	4.7	6.3×12	104	EGK2CM4R7E12---T
	5.6	6.3×12	110	EGK2CM5R6E12---T
	6.8	6.3×12	124	EGK2CM6R8E12---T
	8.2	8×9	135	EGK2CM8R2F09---T
	10	8×9	150	EGK2CM100F09---T
	15	8×12	190	EGK2CM150F12---T
	15	10×9	210	EGK2CM150G09---T
	22	10×12	250	EGK2CM220G12---T
	33	10×16	412	EGK2CM330G16---T
	47	10×20	525	EGK2CM470G20---T
200	1	6.3×9	52	EGK2DM010E09---T
	1.5	6.3×9	60	EGK2DM1R5E09---T
	2.2	6.3×12	72	EGK2DM2R2E12---T
	3.3	6.3×12	88	EGK2DM3R3E12---T
	4.7	6.3×12	102	EGK2DM4R7E12---T
	5.6	8×9	116	EGK2DM5R6F09---T
	6.8	8×9	128	EGK2DM6R8F09---T
	8.2	8×9	144	EGK2DM8R2F09---T
	10	8×12	160	EGK2DM100F12---T
	15	8×16	240	EGK2DM150F16---T
	15	10×12	280	EGK2DM150G12---T
	22	10×16	340	EGK2DM220G16---T
	33	10×20	550	EGK2DM330G20---T
	47	12.5×20	750	EGK2DM470W20---T
250	1	6.3×9	52	EGK2EM010E09---T
	1.5	6.3×9	60	EGK2EM1R5E09---T
	2.2	6.3×12	72	EGK2EM2R2E12---T
	3.3	6.3×12	92	EGK2EM3R3E12---T
	4.7	6.3×12	120	EGK2EM4R7E12---T
	4.7	8×9	125	EGK2EM4R7F09---T
	5.6	8×9	132	EGK2EM5R6F09---T
	6.8	8×9	160	EGK2EM6R8F09---T
	8.2	8×9	172	EGK2EM8R2F09---T
	10	8×12	200	EGK2EM100F12---T
	15	10×12	270	EGK2EM150G12---T
	22	10×16	370	EGK2EM220G16---T
	33	10×20	562	EGK2EM330G20---T
	47	12.5×20	788	EGK2EM470W20---T
350	1	6.3×9	56	EGK2VM010E09---T
	1.5	6.3×12	66	EGK2VM1R5E12---T
	1.8	6.3×12	72	EGK2VM1R8E12---T
	2.2	8×9	80	EGK2VM2R2F09---T
	2.8	8×12	92	EGK2VM2R8F12---T
	3.3	8×12	100	EGK2VM3R3F12---T
	3.3	10×9	120	EGK2VM3R3G09---T
	4.7	8×12	128	EGK2VM4R7F12---T
	5.6	8×16	136	EGK2VM5R6F16---T
	6.8	10×12	168	EGK2VM6R8G12---T
	8.2	10×16	180	EGK2VM8R2G16---T
	10	10×16	210	EGK2VM100G16---T
	15	10×20	290	EGK2VM150G20---T
400	1	6.3×12	54	EGK2GM010E12---T
	1.2	8×9	60	EGK2GM1R2F09---T
	1.5	8×9	66	EGK2GM1R5F09---T
	1.8	8×9	72	EGK2GM1R8F09---T
	2.2	8×12	82	EGK2GM2R2F12---T
	2.8	8×12	88	EGK2GM2R8F12---T
	3.3	8×12	100	EGK2GM3R3F12---T
	3.3	10×9	110	EGK2GM3R3G09---T
	4.7	10×12	126	EGK2GM4R7G12---T
	5.6	8×20	156	EGK2GM5R6F20---T
	5.6	10×12	158	EGK2GM5R6G12---T
	6.8	8×20	170	EGK2GM6R8F20---T
	6.8	10×16	180	EGK2GM6R8G16---T

WV (Vdc)	Cap (μF)	Size ΦD×L(mm)	Rated ripple current (mA rms/105°C, 100kHz)	Part Number
400	8.2	10×16	190	EGK2GM8R2G16---T
	10	10×16	224	EGK2GM100G16---T
	15	12.5×20	300	EGK2GM150W20---T
450	1	6.3×12	54	EGK2WM010E12---T
	1.5	8×12	70	EGK2WM1R5F12---T
	1.8	8×12	80	EGK2WM1R8F12---T
	2.2	8×12	88	EGK2WM2R2F12---T
	2.8	8×16	100	EGK2WM2R8F16---T
	3.3	8×16	110	EGK2WM3R3F16---T
	4.7	10×12	140	EGK2WM4R7G12---T
	5.6	10×16	180	EGK2WM5R6G16---T
	6.8	10×16	200	EGK2WM6R8G16---T
	8.2	10×20	238	EGK2WM8R2G20---T
	10	10×20	284	EGK2WM100G20---T

※ Specifications subject to change without notice.