

# CD11GM series

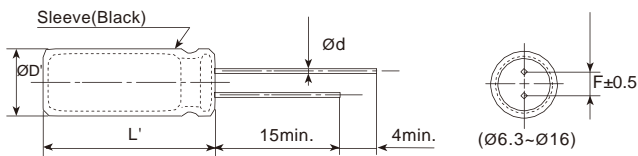
- Endurance: +105°C 3,000 hours
- Economical type, miniaturized
- RoHS Compliant



## SPECIFICATIONS

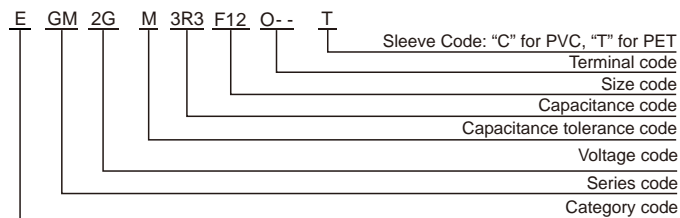
Items	Characteristics						
Category Temperature Range	-40~+105°C						
Rated Voltage Range	160~450 V <sub>dc</sub>						
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)						
Leakage Current	160~400 V <sub>dc</sub>	450 V <sub>dc</sub>		Where, I:Max.leakage current (μA), C:Nominal capacitance (μF), V: Rated voltage (V)			
	I 0.02CV+25μA	I 0.03CV+25μA	(at 20°C after 2 minutes)				
Dissipation Factor (tan δ)	Rated Voltage(V <sub>dc</sub> )	160	200	250	400	450	(at 20°C, 120Hz)
	tan (max.)	0.15	0.15	0.15	0.20	0.20	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V <sub>dc</sub> )	160	200	250	400	450	(at 120Hz)
	Z(-25°C)/Z(+20°C)	3	3	3	5	6	
	Z(-40°C)/Z(+20°C)	6	6	6	6	9	
Endurance	The specifications listed below shall be met when the capacitors are restored to 20°C after DC voltage plus rated ripple current is applied for 3,000 hours at 105°C, the peak voltage shall not exceed the rated voltage.						
	Capacitance Change	±20% of the initial value					
	D.F. (tan δ)	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					
	D.F. (tan δ)	200% of the initial specified value					
	Leakage Current	500% of the initial specified value					

## DIMENSIONS[mm]



ØD	6.3	8	10	12.5	13	16
Ød	0.5	0.5	0.6	0.6	0.6	0.8
F	2.5	3.5	5.0	5.0	5.0	7.5
ØD'	ØD+0.5max.					
L'	L+2max.					

## PART NUMBERING SYSTEM



## RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Rated voltage(V <sub>dc</sub> ) \ Freq.(Hz)	120	1k	10k	100k
160~450	0.50	0.80	0.90	1.00

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■ STANDARD RATINGS(Rated ripple current: mA rms/105°C 100kHz)

WV (Vdc)	Cap (μF)	Size DxL(mm)	Rated ripple current	Part Number
160(2C)	4.7	6.3x7	52	EGM2CM4R7E07OT
	5.6	6.3x9	58	EGM2CM5R6E09OT
	6.8	6.3x12	70	EGM2CM6R8E12OT
	8.2	6.3x12	100	EGM2CM8R2E12OT
			135	EGM2CM100E12OT
	10	8x9	135	EGM2CM100F09OT
			145	EGM2CM100F12OT
			155	EGM2CM150F09OT
	15	8x12	162	EGM2CM150F12OT
			220	EGM2CM220F12OT
	22	10x12	260	EGM2CM220G12OT
			320	EGM2CM330G16OT
	33	10x16	365	EGM2CM470G16OT
			400	EGM2CM470G20OT
56	10x20	450	EGM2CM560G20OT	
68	10x20	500	EGM2CM680G20OT	
100	12.5x20	650	EGM2CM101W20OT	
200(2D)	4.7	6.3x9	52	EGM2DM4R7E09OT
	5.6	6.3x12	62	EGM2DM5R6E12OT
	6.8	6.3x12	76	EGM2DM6R8E12OT
	8.2	8x9	90	EGM2DM8R2F09OT
			95	EGM2DM8R2F12OT
	10	8x9	130	EGM2DM100F09OT
			145	EGM2DM100F12OT
	15	8x12	170	EGM2DM150F12OT
			185	EGM2DM150F16OT
	22	8x16	255	EGM2DM220F16OT
	33	10x16	330	EGM2DM330G16OT
	47	10x20	420	EGM2DM470G20OT
	56	12.5x20	500	EGM2DM560W20OT

WV (Vdc)	Cap (μF)	Size DxL(mm)	Rated ripple current	Part Number
250(2E)	4.7	6.3x9	80	EGM2EM4R7E09OT
		6.3x12	85	EGM2EM4R7E12OT
		8x9	85	EGM2EM4R7F09OT
	6.8	8x9	92	EGM2EM6R8F09OT
			96	EGM2EM6R8F12OT
			96	EGM2EM8R2F09OT
	8.2	8x12	100	EGM2EM8R2F12OT
			150	EGM2EM100F12OT
	10	10x9	150	EGM2EM100G09OT
			195	EGM2EM150F16OT
	22	10x16	280	EGM2EM220G16OT
			360	EGM2EM330G20OT
	33	12.5x16	360	EGM2EM330W16OT
			430	EGM2EM470W16OT
47	12.5x20	455	EGM2EM470W20OT	
400(2G)	1	6.3x9	35	EGM2GM10E09OT
	1.5	6.3x9	40	EGM2GM1R5E09OT
	1.8	6.3x12	49	EGM2GM1R8E12OT
	2.2	6.3x12	60	EGM2GM2R2E12OT
			60	EGM2GM2R2F09OT
	3.3	8x9	70	EGM2GM3R3F09OT
			75	EGM2GM3R3F12OT
	4.7	8x9	88	EGM2GM4R7F09OT
			95	EGM2GM4R7F12OT
	6.8	8x12	117	EGM2GM6R8F12OT
			130	EGM2GM6R8F16OT
	10	10x12	130	EGM2GM6R8G12OT
			170	EGM2GM100F16OT
	15	10x16	170	EGM2GM100G12OT
195			EGM2GM100G16OT	
22	10x16	230	EGM2GM150G16OT	
22	12.5x20	345	EGM2GM220W20OT	
33	13x20	445	EGM2GM330K20OT	
47	16x25	650	EGM2GM470L25OT	
450(2W)	2.2	8x9	65	EGM2WM2R2F09OT
	3.3	8x12	85	EGM2WM3R3F12OT
	4.7	8x12	105	EGM2WM4R7F12OT
	6.8	10x12	140	EGM2WM6R8G12OT
	10	10x16	205	EGM2WM100G16OT
	15	10x20	265	EGM2WM150G20OT
	22	12.5x20	360	EGM2WM220W20OT
	33	16x20	500	EGM2WM330L20OT
	47	16x25	665	EGM2WM470L25OT