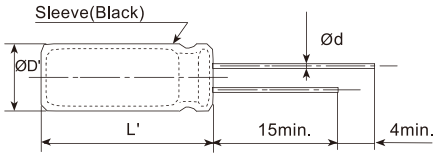
CD11GM series

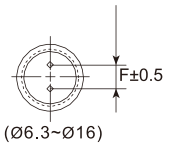
- Endurance: +105°C 3,000 hours
- Economical type, miniaturized
- **RoHS Compliant**

SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	-40~+105°C						
Rated Voltage Range	160~450 Vdc						
Capacitance Tolerance	±20%(M)						(at 20°C,120Hz)
Leakage Current	160~400 Vdc	450 Vdc	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 (tanδ)	Rated Voltage(Vdc)	160	200	250	400	450	
	tanδ (max.)	0.15	0.15	0.15	0.20	0.20	(at 20°C,120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(Vdc)	160	200	250	400	450	
	Z(-25°C)/Z(+20°C)	3	3	3	5	6	
	Z(-40°C)/Z(+20°C)	6	6	6	6	9	(at 120Hz)
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. (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 leaving them under no load at 105°C for 1,000 hours.						
	Capacitance Change	≤±20% of the initial value					
	D.F. (tanδ)	≤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	0.6	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

E GM 2G M 3R3 F12 O- - T

- T — Sleeve Code: "C" for PVC, "T" for PET
- O- - — Terminal code
- F12 — Size code
- 3R3 — Capacitance code
- M — Capacitance tolerance code
- 2G — Voltage code
- GM — Series code
- E — Category code

RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Freq.(Hz) / Rated voltage(Vdc)	120	1k	10k	100k
160~450	0.50	0.80	0.90	1.00

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CD11GM series

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

WV (Vdc)	Cap (μF)	Size D×L(mm)	Rated ripple current	Part Number
160(2C)	4.7	6.3×7	52	EGM2CM4R7E07OT
	5.6	6.3×9	58	EGM2CM5R6E09OT
	6.8	6.3×12	70	EGM2CM6R8E12OT
	8.2	6.3×12	100	EGM2CM8R2E12OT
	10	6.3×12	135	EGM2CM100E12OT
		8×9	135	EGM2CM100F09OT
		8×12	145	EGM2CM100F12OT
	15	8×9	155	EGM2CM150F09OT
		8×12	162	EGM2CM150F12OT
	22	8×12	220	EGM2CM220F12OT
		10×12	260	EGM2CM220G12OT
	33	10×16	320	EGM2CM330G16OT
	47	10×16	365	EGM2CM470G16OT
		10×20	400	EGM2CM470G20OT
	56	10×20	450	EGM2CM560G20OT
	68	10×20	500	EGM2CM680G20OT
	100	12.5×20	650	EGM2CM101W20OT
200(2D)	4.7	6.3×9	52	EGM2DM4R7E09OT
	5.6	6.3×12	62	EGM2DM5R6E12OT
	6.8	6.3×12	76	EGM2DM6R8E12OT
	8.2	8×9	90	EGM2DM8R2F09OT
		8×12	95	EGM2DM8R2F12OT
	10	8×9	130	EGM2DM100F09OT
		8×12	145	EGM2DM100F12OT
	15	8×12	170	EGM2DM150F12OT
		8×16	185	EGM2DM150F16OT
	22	8×16	255	EGM2DM220F16OT
	33	10×16	330	EGM2DM330G16OT
	47	10×20	420	EGM2DM470G20OT
	56	12.5×20	500	EGM2DM560W20OT

WV (Vdc)	Cap (μF)	Size D×L(mm)	Rated ripple current	Part Number
250(2E)	4.7	6.3×9	80	EGM2EM4R7E09OT
		6.3×12	85	EGM2EM4R7E12OT
		8×9	85	EGM2EM4R7F09OT
	6.8	8×9	92	EGM2EM6R8F09OT
		8×12	96	EGM2EM6R8F12OT
	8.2	8×9	96	EGM2EM8R2F09OT
		8×12	100	EGM2EM8R2F12OT
	10	8×12	150	EGM2EM100F12OT
		10×9	150	EGM2EM100G09OT
	15	8×16	195	EGM2EM150F16OT
	22	10×16	280	EGM2EM220G16OT
	33	10×20	360	EGM2EM330G20OT
		12.5×16	360	EGM2EM330W16OT
	47	12.5×16	430	EGM2EM470W16OT
		12.5×20	455	EGM2EM470W20OT
400(2G)	1	6.3×9	35	EGM2GM010E09OT
	1.5	6.3×9	40	EGM2GM1R5E09OT
	1.8	6.3×12	49	EGM2GM1R8E12OT
	2.2	6.3×12	60	EGM2GM2R2E12OT
		8×9	60	EGM2GM2R2F09OT
	3.3	8×9	70	EGM2GM3R3F09OT
		8×12	75	EGM2GM3R3F12OT
	4.7	8×9	88	EGM2GM4R7F09OT
		8×12	95	EGM2GM4R7F12OT
	6.8	8×12	117	EGM2GM6R8F12OT
		8×16	130	EGM2GM6R8F16OT
		10×12	130	EGM2GM6R8G12OT
	10	8×16	170	EGM2GM100F16OT
		10×12	170	EGM2GM100G12OT
		10×16	195	EGM2GM100G16OT
	15	10×16	230	EGM2GM150G16OT
	22	12.5×20	345	EGM2GM220W20OT
	33	13×20	445	EGM2GM330K20OT
	47	16×25	650	EGM2GM470L25OT
450(2W)	2.2	8×9	65	EGM2WM2R2F09OT
	3.3	8×12	85	EGM2WM3R3F12OT
	4.7	8×12	105	EGM2WM4R7F12OT
	6.8	10×12	140	EGM2WM6R8G12OT
	10	10×16	205	EGM2WM100G16OT
	15	10×20	265	EGM2WM150G20OT
	22	12.5×20	360	EGM2WM220W20OT
	33	16×20	500	EGM2WM330L20OT
	47	16×25	665	EGM2WM470L25OT

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