

# CD11GD series

- Endurance: +105 °C 8,000 hours
- Miniaturized and high stability
- RoHS Compliant

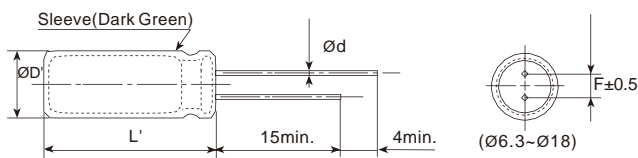
Upgrade



## SPECIFICATIONS

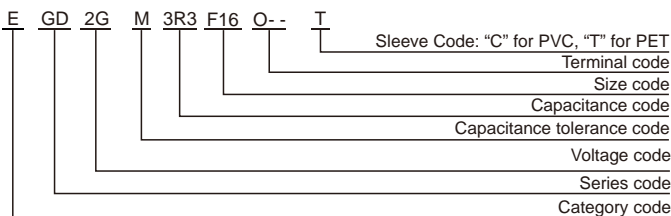
Items	Characteristics									
Category Temperature Range	-40~+105°C									
Rated Voltage Range	140~450 V <sub>dc</sub>									
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)									
Leakage Current	140~400 V <sub>dc</sub>	450V <sub>dc</sub>			Where, I: Max.leakage current (μA), C:Nominal capacitance (μF), V: Rated voltage (V)					
	I 0.02CV+10μA	I 0.03CV+10μA	(at 20°C after 2 minutes)							
Dissipation Factor (tan δ)	Rated Voltage(V <sub>dc</sub> )	140	160	200	250	315	350	400	450	(at 20°C, 120Hz)
	tan δ (max.)	0.15	0.15	0.15	0.15	0.20	0.20	0.20	0.20	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V <sub>dc</sub> )	140	160	200	250	315	350	400	450	(at 120Hz)
	Z(-25°C)/Z(+20°C)	3	3	3	3	5	5	5	6	
	Z(-40°C)/Z(+20°C)	6	6	6	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 8,000 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	200% of the initial specified value								

## DIMENSIONS[mm]



ØD	6.3	8	10	12.5	13	16	18
Ød	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.5	3.5	5.0	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
Rated voltage(V <sub>dc</sub> )					
140~450		0.50	0.80	0.90	1.00

# CD11GD series

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

WV (Vdc)	Cap (µF)	Size D×L (mm)	Rated ripple current	Part Number
140(2A)	10	6.3×12	100	EGD2AM100E12OT
	15	6.3×12	125	EGD2AM150E12OT
	22	8×12	250	EGD2AM220F12OT
	33	10×12	365	EGD2AM330G12OT
	47	8×20	430	EGD2AM470F20OT
	68	10×20	520	EGD2AM680G20OT
	100	12.5×16	650	EGD2AM101W16OT
	150	12.5×25	750	EGD2AM151W25OT
220	16×20	850	EGD2AM221L20OT	
160(2C)	1	6.3×7	34	EGD2CM010E07OT
		6.3×9	36	EGD2CM010E09OT
	1.5	6.3×7	38	EGD2CM1R5E07OT
		6.3×9	45	EGD2CM1R5E09OT
	1.8	6.3×7	49	EGD2CM1R8E07OT
		6.3×9	50	EGD2CM1R8E09OT
	2.2	6.3×7	53	EGD2CM2R2E07OT
		6.3×9	56	EGD2CM2R2E09OT
	2.8	6.3×7	57	EGD2CM2R8E07OT
		6.3×9	60	EGD2CM2R8E09OT
	3.3	6.3×7	61	EGD2CM3R3E07OT
		6.3×9	65	EGD2CM3R3E09OT
	3.9	6.3×7	65	EGD2CM3R9E07OT
		6.3×9	68	EGD2CM3R9E09OT
	4.7	6.3×7	66	EGD2CM4R7E07OT
		6.3×9	70	EGD2CM4R7E09OT
	5.6	6.3×12	72	EGD2CM4R7E12OT
		6.3×9	72	EGD2CM5R6E09OT
	6.8	6.3×12	74	EGD2CM5R6E12OT
		6.3×9	80	EGD2CM6R8E09OT
	8.2	6.3×12	84	EGD2CM6R8E12OT
		6.3×12	120	EGD2CM8R2E12OT
	8	8×9	135	EGD2CM8R2F09OT
		6.3×12	145	EGD2CM100E12OT
	10	8×9	165	EGD2CM100F09OT
		8×12	206	EGD2CM100F12OT
	12	8×9	180	EGD2CM120F09OT
		8×9	192	EGD2CM150F09OT
	15	8×12	213	EGD2CM150F12OT
		8×12	267	EGD2CM220F12OT
	22	8×16	330	EGD2CM220F16OT
		10×12	330	EGD2CM220G12OT
	33	10×12	400	EGD2CM330G12OT
10×16		425	EGD2CM330G16OT	
47	10×16	455	EGD2CM470G16OT	
	10×20	500	EGD2CM470G20OT	
56	10×20	530	EGD2CM560G20OT	
	10×20	550	EGD2CM680G20OT	
68	12.5×16	565	EGD2CM680W16OT	
	12.5×20	640	EGD2CM820W20OT	
82	12.5×20	640	EGD2CM820W20OT	
	12.5×20	700	EGD2CM101W20OT	
100	12.5×25	722	EGD2CM101W25OT	
	12.5×25	755	EGD2CM151W25OT	
150	16×20	760	EGD2CM151L20OT	
	16×25	900	EGD2CM221L25OT	
220	18×30	1100	EGD2CM331M30OT	
	200(2D)	1	6.3×7	35
6.3×9			38	EGD2DM010E09OT
1.2		6.3×7	38	EGD2DM1R2E07OT
		6.3×9	42	EGD2DM1R2E09OT
1.5		6.3×7	49	EGD2DM1R5E07OT
		6.3×9	50	EGD2DM1R5E09OT
1.8		6.3×7	50	EGD2DM1R8E07OT
		6.3×9	54	EGD2DM1R8E09OT

WV (Vdc)	Cap (µF)	Size D×L (mm)	Rated ripple current	Part Number
200(2D)	2.2	6.3×7	55	EGD2DM2R2E07OT
		6.3×9	60	EGD2DM2R2E09OT
	2.8	6.3×7	61	EGD2DM2R8E07OT
		6.3×9	68	EGD2DM2R8E09OT
	3.3	6.3×7	65	EGD2DM3R3E07OT
		6.3×9	72	EGD2DM3R3E09OT
	4.7	6.3×9	76	EGD2DM4R7E09OT
		6.3×12	85	EGD2DM4R7E12OT
	5.6	6.3×12	90	EGD2DM5R6E12OT
		8×9	92	EGD2DM5R6F09OT
	6.8	6.3×12	94	EGD2DM6R8E12OT
		8×9	98	EGD2DM6R8F09OT
	8.2	8×12	110	EGD2DM6R8F12OT
		8×9	145	EGD2DM8R2F09OT
	10	8×12	155	EGD2DM8R2F12OT
		8×9	165	EGD2DM100F09OT
	15	8×12	180	EGD2DM100F12OT
		8×12	200	EGD2DM150F12OT
	22	8×16	225	EGD2DM150F16OT
		8×16	320	EGD2DM220F16OT
	33	10×12	320	EGD2DM220G12OT
		10×16	380	EGD2DM220G16OT
47	10×16	425	EGD2DM330G16OT	
	10×20	450	EGD2DM330G20OT	
68	12.5×13	430	EGD2DM330W13OT	
	10×20	520	EGD2DM470G20OT	
82	12.5×16	520	EGD2DM470W16OT	
	12.5×20	600	EGD2DM680W20OT	
100	12.5×25	665	EGD2DM680W25OT	
	12.5×20	670	EGD2DM820W20OT	
150	12.5×25	700	EGD2DM101W25OT	
	16×20	700	EGD2DM101L20OT	
150	16×25	820	EGD2DM151L25OT	
	16×30	895	EGD2DM151L30OT	
250(2E)	1	6.3×7	36	EGD2EM010E07OT
		6.3×9	40	EGD2EM010E09OT
	1.2	6.3×7	41	EGD2EM1R2E07OT
		6.3×9	46	EGD2EM1R2E09OT
	1.5	6.3×7	51	EGD2EM1R5E07OT
		6.3×9	54	EGD2EM1R5E09OT
	1.8	6.3×7	54	EGD2EM1R8E07OT
		6.3×9	58	EGD2EM1R8E09OT
	2.2	6.3×7	55	EGD2EM2R2E07OT
		6.3×9	62	EGD2EM2R2E09OT
	2.8	6.3×7	63	EGD2EM2R8E07OT
		6.3×9	70	EGD2EM2R8E09OT
	3.3	6.3×9	75	EGD2EM3R3E09OT
		6.3×12	80	EGD2EM3R3E12OT
	4.7	6.3×12	92	EGD2EM4R7E12OT
		8×9	92	EGD2EM4R7F09OT
	5.6	8×12	102	EGD2EM4R7F12OT
		8×9	95	EGD2EM5R6F09OT
	6.8	8×12	105	EGD2EM5R6F12OT
		8×9	105	EGD2EM6R8F09OT
	8.2	8×12	109	EGD2EM6R8F12OT
		8×9	120	EGD2EM8R2F09OT
10	8×12	132	EGD2EM8R2F12OT	
	8×10	187	EGD2EM100F10OT	
15	8×12	200	EGD2EM100F12OT	
	10×9	175	EGD2EM100G09OT	
15	8×16	225	EGD2EM150F16OT	
	10×12	225	EGD2EM150G12OT	

# CD11GD series

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

WV (Vdc)	Cap (μF)	Size D×L(mm)	Rated ripple current	Part Number
250(2E)	22	8×16	350	EGD2EM220F16OT
		10×16	380	EGD2EM220G16OT
		10×20	430	EGD2EM330G20OT
	33	12.5×16	450	EGD2EM330W16OT
		12.5×16	520	EGD2EM470W16OT
	47	12.5×20	580	EGD2EM470W20OT
		12.5×25	660	EGD2EM680W25OT
	68	16×20	660	EGD2EM680L20OT
		16×20	720	EGD2EM820L20OT
	82	16×25	760	EGD2EM820L25OT
		16×20	765	EGD2EM101L20OT
	100	16×25	790	EGD2EM101L25OT
		16×30	885	EGD2EM151L30OT
	150	18×25	885	EGD2EM151M25OT
315(2F)		2.2	6.3×9	66
	3.3	6.3×9	74	EGD2FM3R3E09OT
	4.7	6.3×12	90	EGD2FM4R7E12OT
	5.6	8×9	95	EGD2FM5R6F09OT
	6.8	8×9	102	EGD2FM6R8F09OT
	8.2	8×12	120	EGD2FM8R2F12OT
	10	10×12	205	EGD2FM100G12OT
	15	10×16	260	EGD2FM150G16OT
	22	10×20	370	EGD2FM220G20OT
	33	12.5×20	450	EGD2FM330W20OT
	47	12.5×20	580	EGD2FM470W20OT
350(2V)	1	6.3×7	40	EGD2VM010E07OT
		6.3×9	45	EGD2VM010E09OT
	1.2	6.3×7	55	EGD2VM1R2E07OT
		6.3×9	50	EGD2VM1R2E09OT
	1.5	6.3×9	55	EGD2VM1R5E09OT
		6.3×12	60	EGD2VM1R5E12OT
	1.8	6.3×9	60	EGD2VM1R8E09OT
		6.3×12	64	EGD2VM1R8E12OT
	2.2	6.3×9	66	EGD2VM2R2E09OT
		6.3×12	70	EGD2VM2R2E12OT
	2.8	8×9	72	EGD2VM2R2F09OT
		8×9	76	EGD2VM2R8F09OT
	2.8	8×12	80	EGD2VM2R8F12OT
		6.3×12	77	EGD2VM3R3E12OT
	3.3	8×9	78	EGD2VM3R3F09OT
		8×12	82	EGD2VM3R3F12OT
	4.7	8×9	90	EGD2VM4R7F09OT
		8×12	102	EGD2VM4R7F12OT
	5.6	8×12	110	EGD2VM5R6F12OT
		10×9	110	EGD2VM5R6G09OT
	6.8	8×12	120	EGD2VM6R8F12OT
		10×9	120	EGD2VM6R8G09OT
	8.2	8×16	140	EGD2VM8R2F16OT
		10×12	140	EGD2VM8R2G12OT
	10	8×20	226	EGD2VM100F20OT
		10×12	205	EGD2VM100G12OT
	15	10×16	260	EGD2VM150G16OT
		10×20	285	EGD2VM150G20OT
	22	10×20	370	EGD2VM220G20OT
		12.5×16	370	EGD2VM220W16OT
	33	12.5×20	450	EGD2VM330W20OT
		12.5×25	480	EGD2VM330W25OT
	47	16×20	600	EGD2VM470L20OT
		16×25	720	EGD2VM680L25OT
	68	18×20	720	EGD2VM680M20OT
		16×30	770	EGD2VM820L30OT
82	18×25	770	EGD2VM820M25OT	
	16×30	850	EGD2VM101L30OT	
100	18×25	850	EGD2VM101M25OT	

WV (Vdc)	Cap (μF)	Size D×L(mm)	Rated ripple current	Part Number
400(2G)	1	6.3×7	50	EGD2GM010E07OT
		6.3×9	55	EGD2GM010E09OT
	1.2	6.3×9	59	EGD2GM1R2E09OT
		6.3×12	63	EGD2GM1R2E12OT
	1.5	6.3×9	65	EGD2GM1R5E09OT
		6.3×12	68	EGD2GM1R5E12OT
	1.8	6.3×9	68	EGD2GM1R8E09OT
		6.3×12	71	EGD2GM1R8E12OT
	2.2	6.3×9	68	EGD2GM2R2E09OT
		6.3×12	72	EGD2GM2R2E12OT
	2.2	8×9	75	EGD2GM2R2F09OT
		8×12	78	EGD2GM2R2F12OT
	2.8	6.3×12	74	EGD2GM2R8E12OT
		8×9	78	EGD2GM2R8F09OT
	2.8	8×12	81	EGD2GM2R8F12OT
		8×7	78	EGD2GM3R3F07OT
	3.3	8×9	85	EGD2GM3R3F09OT
		8×12	91	EGD2GM3R3F12OT
	4.7	8×9	90	EGD2GM4R7F09OT
		8×12	104	EGD2GM4R7F12OT
	5.6	8×12	114	EGD2GM5R6F12OT
		10×12	124	EGD2GM5R6G12OT
	6.8	8×12	125	EGD2GM6R8F12OT
		10×12	140	EGD2GM6R8G12OT
	8.2	10×12	185	EGD2GM8R2G12OT
		10×16	218	EGD2GM8R2G16OT
	10	10×12	220	EGD2GM100G12OT
		10×16	230	EGD2GM100G16OT
	15	10×20	255	EGD2GM150G20OT
		12.5×16	270	EGD2GM150W16OT
	22	12.5×16	370	EGD2GM220W16OT
		12.5×20	400	EGD2GM220W20OT
	33	12.5×25	520	EGD2GM330W25OT
		13×20	465	EGD2GM330K20OT
	47	16×20	520	EGD2GM330L20OT
		12.5×30	565	EGD2GM470W30OT
47	16×20	565	EGD2GM470L20OT	
	16×25	590	EGD2GM470L25OT	
68	16×30	680	EGD2GM680L30OT	
	18×25	700	EGD2GM680M25OT	
82	18×25	770	EGD2GM820M25OT	
	100	18×30	900	EGD2GM101M30OT
150	18×40	1250	EGD2GM151M40OT	
	450(2W)	1	6.3×9	55
6.3×12			58	EGD2WM010E12OT
1.2		6.3×9	60	EGD2WM1R2E09OT
		8×9	65	EGD2WM1R5F09OT
1.5		8×12	70	EGD2WM1R5F12OT
		8×9	68	EGD2WM1R8F09OT
1.8		8×12	72	EGD2WM1R8F12OT
		8×9	72	EGD2WM2R2F09OT
2.2		8×12	74	EGD2WM2R2F12OT
		8×9	75	EGD2WM2R8F09OT
2.8		8×12	77	EGD2WM2R8F12OT
		8×12	80	EGD2WM3R3F12OT
3.3		8×16	86	EGD2WM3R3F16OT
		10×9	80	EGD2WM3R3G09OT
4.7		8×12	84	EGD2WM4R7F12OT
		8×16	92	EGD2WM4R7F16OT
5.6		10×12	94	EGD2WM4R7G12OT
		10×12	102	EGD2WM5R6G12OT
6.8		10×16	115	EGD2WM5R6G16OT
		10×12	130	EGD2WM6R8G12OT
6.8		10×16	142	EGD2WM6R8G16OT

Radial Type

# CD11GD series

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

WV (Vdc)	Cap (μF)	Size D×L(mm)	Rated ripple current	Part Number
450(2W)	8.2	10×16	185	EGD2WM8R2G16OT
		10×20	209	EGD2WM8R2G20OT
	10	10×16	218	EGD2WM100G16OT
		10×20	225	EGD2WM100G20OT
	15	12.5×16	300	EGD2WM150W16OT
		12.5×20	332	EGD2WM150W20OT
	22	12.5×20	385	EGD2WM220W20OT
		12.5×25	427	EGD2WM220W25OT
	33	10×45	510	EGD2WM330G45OT
		12.5×30	495	EGD2WM330W30OT
		16×20	495	EGD2WM330L20OT
	47	12.5×35	595	EGD2WM470W35OT
		16×25	630	EGD2WM470L25OT
	68	18×25	740	EGD2WM680M25OT
	82	18×30	800	EGD2WM820M30OT
	100	18×35	890	EGD2WM101M35OT
150	18×45	1085	EGD2WM151M45OT	

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