

CD11GES series

- Endurance: 3,000 hours at 130°C; 12,000 hours at 105°C
- Withstand high temperature 130°C, miniaturized and long life
- Suitable for output circuit and input circuit of LED driving power, electronic ballast.
- **RoHS Compliant**

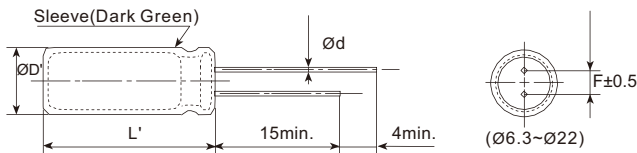
Miniaturized
CD11GE  CD11GES



SPECIFICATIONS

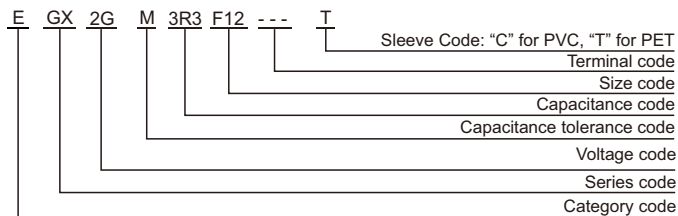
Items	Characteristics							
Category Temperature Range	-40~+130°C(160~ 450 V _{dc})				-40~+105°C(500 V _{dc})			
Rated Voltage Range	160~500 V _{dc}							
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)							
Leakage Current	160~400 V _{dc}	450~500 V _{dc}		Where, I: Max.leakage current (μA), C:Nominal capacitance (μF), V: Rated voltage (V)				
	I≤0.02CV+10μA	I≤0.03CV+10μA		(at 20°C after 2 minutes)				
Dissipation Factor (tanδ)	Rated Voltage(V _{dc})	160	200	250	350	400	450	500
	Dissipation Factor (Max.)	0.15	0.15	0.15	0.20	0.20	0.20	0.24
	(at 20°C, 120Hz)							
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V _{dc})	160	200	250	350	400	450	500
	Z(-25°C)/Z(+20°C)	3	3	3	5	5	6	6
	Z(-40°C)/Z(+20°C)	6	6	6	6	6	9	15
	(at 120Hz)							
Endurance	The specifications listed below shall be satisfied when the capacitors are restored to 20°C after rated DC voltage is applied for 3,000 hours (160~450V _{dc}) at 130°C or after DC voltage plus rated ripple current is applied for 12,000 hours at 105°C (500 V _{dc} : 10,000 hours)							
	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	6.3	8	10	12.5	16	18	22
Ød	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.5	3.5	5.0	5.0	7.5	7.5	10
ØD'	ØD+0.5max.						
L'	L+2max.						

PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Cap.(μF) \ Freq.(Hz)	120	1k	10k	100k
Cap.<33	0.40	0.70	0.90	1.00
Cap.≥33	0.50	0.80	0.90	1.00

CD11GES series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	Rated ripple current (mA rms/105°C 100kHz)	Part Number
160	2.2	6.3×9	56	EGX2CM2R2E09---T
	3.3	6.3×9	85	EGX2CM3R3E09---T
	4.7	6.3×12	96	EGX2CM4R7E12---T
	5.6	6.3×12	102	EGX2CM5R6E12---T
	5.6	8×9	102	EGX2CM5R6F09---T
	6.8	6.3×12	109	EGX2CM6R8E12---T
	6.8	8×9	109	EGX2CM6R8F09---T
	8.2	8×9	160	EGX2CM8R2F09---T
	10	8×9	220	EGX2CM100F09---T
	15	8×9	280	EGX2CM150F09---T
	22	8×12	400	EGX2CM220F12---T
	33	10×12	510	EGX2CM330G12---T
	47	10×16	680	EGX2CM470G16---T
	56	10×20	865	EGX2CM560G20---T
	68	10×20	950	EGX2CM680G20---T
	68	12.5×20	1180	EGX2CM680W20---T
	82	12.5×20	1260	EGX2CM820W20---T
	100	12.5×20	1350	EGX2CM101W20---T
	150	12.5×25	1600	EGX2CM151W25---T
	150	16×20	1790	EGX2CM151L20---T
220	16×25	2130	EGX2CM221L25---T	
330	18×25	2650	EGX2CM331M25---T	
200	1	6.3×9	55	EGX2DM010E09---T
	1.5	6.3×9	62	EGX2DM1R5E09---T
	2.2	6.3×9	72	EGX2DM2R2E09---T
	3.3	6.3×12	112	EGX2DM3R3E12---T
	4.7	6.3×12	132	EGX2DM4R7E12---T
	4.7	8×12	160	EGX2DM4R7F12---T
	5.6	8×12	190	EGX2DM5R6F12---T
	6.8	8×12	200	EGX2DM6R8F12---T
	8.2	8×12	250	EGX2DM8R2F12---T
	10	8×12	260	EGX2DM100F12---T
	15	10×12	330	EGX2DM150G12---T
	22	10×16	500	EGX2DM220G16---T
	33	10×20	650	EGX2DM330G20---T
	47	12.5×20	980	EGX2DM470W20---T
	68	12.5×25	1300	EGX2DM680W25---T
	68	16×20	1300	EGX2DM680L20---T
	82	16×20	1380	EGX2DM820L20---T
	100	16×20	1420	EGX2DM101L20---T
	100	16×25	1494	EGX2DM101L25---T
	150	16×25	1890	EGX2DM151L25---T
150	16×30	1989	EGX2DM151L30---T	
250	1	6.3×9	55	EGX2EM010E09---T
	1.5	6.3×9	62	EGX2EM1R5E09---T
	2.2	6.3×9	74	EGX2EM2R2E09---T
	3.3	6.3×12	112	EGX2EM3R3E12---T
	3.9	6.3×12	125	EGX2EM3R9E12---T
	4.7	6.3×12	142	EGX2EM4R7E12---T
	4.7	8×12	160	EGX2EM4R7F12---T
	5.6	8×12	190	EGX2EM5R6F12---T
	6.8	8×12	200	EGX2EM6R8F12---T
	8.2	8×12	240	EGX2EM8R2F12---T
	10	8×12	295	EGX2EM100F12---T
	10	10×12	305	EGX2EM100G12---T
	15	8×16	400	EGX2EM150F16---T
	15	10×12	400	EGX2EM150G12---T
	22	10×16	500	EGX2EM220G16---T
	33	10×20	720	EGX2EM330G20---T
	33	12.5×16	760	EGX2EM330W16---T
	47	12.5×20	980	EGX2EM470W20---T
	56	12.5×25	1080	EGX2EM560W25---T
	68	12.5×25	1200	EGX2EM680W25---T
68	16×20	1270	EGX2EM680L20---T	
82	12.5×30	1500	EGX2EM820W30---T	
82	16×20	1400	EGX2EM820L20---T	
100	16×25	1580	EGX2EM101L25---T	
150	18×25	1800	EGX2EM151M25---T	
350	1	6.3×9	56	EGX2VM010E09---T
	1.5	8×9	71	EGX2VM1R5F09---T

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	Rated ripple current (mA rms/105°C 100kHz)	Part Number
350	2.2	8×9	90	EGX2VM2R2F09---T
	3.3	8×9	110	EGX2VM3R3F09---T
	4.7	8×12	150	EGX2VM4R7F12---T
	5.6	8×12	180	EGX2VM5R6F12---T
	6.8	8×16	225	EGX2VM6R8F16---T
	6.8	10×12	225	EGX2VM6R8G12---T
	8.2	10×16	288	EGX2VM8R2G16---T
	10	8×20	320	EGX2VM100F20---T
	10	10×16	330	EGX2VM100G16---T
	15	12.5×16	455	EGX2VM150W16---T
	22	12.5×20	650	EGX2VM220W20---T
	33	12.5×20	855	EGX2VM330W20---T
	33	16×20	900	EGX2VM330L20---T
	47	16×20	1080	EGX2VM470L20---T
	68	16×25	1368	EGX2VM680L25---T
	68	18×20	1368	EGX2VM680M20---T
	82	18×25	1530	EGX2VM820M25---T
	100	18×25	1600	EGX2VM101M25---T
	1	6.3×9	60	EGX2GM010E09---T
	1.5	6.3×9	78	EGX2GM1R5E09---T
2.2	8×9	95	EGX2GM2R2F09---T	
2.8	8×12	130	EGX2GM2R8F12---T	
3.3	8×12	140	EGX2GM3R3F12---T	
4.7	8×12	160	EGX2GM4R7F12---T	
4.7	10×12	170	EGX2GM4R7G12---T	
5.6	8×12	190	EGX2GM5R6F12---T	
5.6	10×12	202	EGX2GM5R6G12---T	
6.8	10×12	240	EGX2GM6R8G12---T	
8.2	10×16	288	EGX2GM8R2G16---T	
10	10×16	310	EGX2GM100G16---T	
15	10×20	500	EGX2GM150G20---T	
15	12.5×20	550	EGX2GM150W20---T	
22	12.5×20	680	EGX2GM220W20---T	
22	16×20	760	EGX2GM220L20---T	
33	12.5×25	810	EGX2GM330W25---T	
33	16×20	900	EGX2GM330L20---T	
47	16×25	1140	EGX2GM470L25---T	
56	18×25	1476	EGX2GM560M25---T	
68	18×30	1547	EGX2GM680M30---T	
100	18×30	1610	EGX2GM101M30---T	
1	6.3×12	80	EGX2WM010E12---T	
1.5	8×12	88	EGX2WM1R5F12---T	
2.2	8×12	93	EGX2WM2R2F12---T	
3.3	8×12	120	EGX2WM3R3F12---T	
4.7	10×12	160	EGX2WM4R7G12---T	
5.6	10×16	227	EGX2WM5R6G16---T	
6.8	10×16	250	EGX2WM6R8G16---T	
8.2	10×16	268	EGX2WM8R2G16---T	
10	10×20	300	EGX2WM100G20---T	
15	12.5×20	450	EGX2WM150W20---T	
22	12.5×25	600	EGX2WM220W25---T	
22	16×20	730	EGX2WM220L20---T	
33	12.5×30	800	EGX2WM330W30---T	
33	16×25	980	EGX2WM330L25---T	
47	16×25	1000	EGX2WM470L25---T	
47	18×20	1120	EGX2WM470M20---T	
56	18×25	1290	EGX2WM560M25---T	
68	18×25	1360	EGX2WM680M25---T	
100	18×35	1600	EGX2WM101M35---T	
10	12.5×20	320	EGX2HM100W20---T	
15	12.5×20	375	EGX2HM150W20---T	
22	16×20	510	EGX2HM220L20---T	
22	18×20	560	EGX2HM220M20---T	
33	18×25	700	EGX2HM330M25---T	
47	18×30	880	EGX2HM470M30---T	
56	18×30	960	EGX2HM560M30---T	
68	18×35	1040	EGX2HM680M35---T	
82	22×35	1255	EGX2HM820O35---T	
100	22×35	1500	EGX2HM101O35---T	

Radial Type

※ Specifications subject to change without notice.