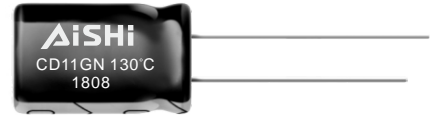


CD11GN series

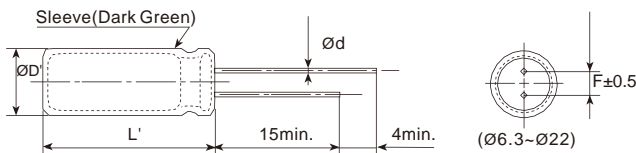
- Endurance: +130°C 1,000~2,000 hours; +105°C 8,000~12,000 hours
- Withstand high temperature, miniaturized, long life
- Suitable for output circuit and input circuit of LED driving power.
- **RoHS Compliant**



SPECIFICATIONS

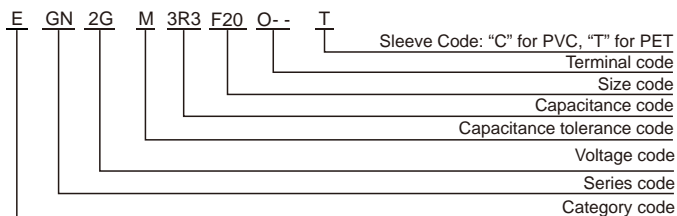
Items	Characteristics							
Category Temperature Range	-40~+130°C(160~ 450 V _{dc})				-40~+105°C(500 V _{dc})			
Rated Voltage Range	160~500 V _{dc}							
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)							
Leakage Current	160~400 V _{dc}	450~500 V _{dc}		Where, I: Max.leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage (V)				
	I 0.02CV+10μA	I 0.03CV+10μA		(at 20°C after 2 minutes)				
Dissipation Factor (tan δ)	Rated Voltage(V _{dc})	160	200	250	350	400	450	500
	tan δ (max.)	0.15	0.15	0.15	0.20	0.20	0.20	0.24
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
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 a specified period of time at 130°C or 105°C, the peak voltage shall not exceed the rated voltage.							
	Capacitance Change	±20% of the initial value			Case Dia. (mm)	130°C Load life (hours)	105°C Load life (hours)	
	D.F. (tan δ)	200% of the initial specified value			ØD=6.3	160~450WV	160~450WV	500WV
	Leakage Current	The initial specified value			ØD 8	1,000	8,000	10,000
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						
	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	16	18	22
Ød	0.5	0.5	0.6	0.6	0.8	0.8	0.8
F	2.5	3.5		5.0	5.0	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

CD11GN series

■ STANDARD RATINGS (Rated ripple current: mArms/105°C 100kHz or mArms/130°C 100kHz)

WV (Vdc)	Cap (µF)	Size D×L(mm)	Rated ripple current (105°C)	Rated ripple current (130°C)	Part Number
160 (2C)	1	6.3×7	40	26	EGN2CM010E07OT
		6.3×9	45	30	EGN2CM010E09OT
	1.5	6.3×7	46	31	EGN2CM1R5E07OT
		6.3×9	50	34	EGN2CM1R5E09OT
	1.8	6.3×7	53	35	EGN2CM1R8E07OT
		6.3×9	58	38	EGN2CM1R8E09OT
	2.2	6.3×7	58	38	EGN2CM2R2E07OT
		6.3×9	64	42	EGN2CM2R2E09OT
	2.8	6.3×7	61	40	EGN2CM2R8E07OT
		6.3×9	68	45	EGN2CM2R8E09OT
	3.3	6.3×9	72	47	EGN2CM3R3E09OT
	4.7	6.3×9	76	49	EGN2CM4R7E09OT
		8×9	82	54	EGN2CM4R7F09OT
	5.6	8×9	88	58	EGN2CM5R6F09OT
	6.8	8×9	100	65	EGN2CM6R8F09OT
		8×9	170	110	EGN2CM100F09OT
	10	8×12	190	124	EGN2CM100F12OT
		8×9	230	150	EGN2CM150F09OT
	15	8×12	255	165	EGN2CM150F12OT
		8×12	340	221	EGN2CM220F12OT
	22	10×12	420	273	EGN2CM220G12OT
		10×16	520	340	EGN2CM330G16OT
	47	10×16	570	371	EGN2CM470G16OT
		10×20	595	387	EGN2CM470G20OT
68	10×20	680	442	EGN2CM680G20OT	
	12.5×16	680	442	EGN2CM680W16OT	
100	12.5×20	1100	715	EGN2CM101W20OT	
	12.5×25	1120	728	EGN2CM101W25OT	
150	12.5×25	1200	780	EGN2CM151W25OT	
	16×20	1200	780	EGN2CM151L20OT	
220	16×25	1400	910	EGN2CM221L25OT	
330	18×30	1655	1075	EGN2CM331M30OT	
200 (2D)	1	6.3×7	46	31	EGN2DM010E07OT
		6.3×9	52	40	EGN2DM010E09OT
	1.5	6.3×7	52	40	EGN2DM1R5E07OT
		6.3×9	56	42	EGN2DM1R5E09OT
	1.8	6.3×7	56	40	EGN2DM1R8E07OT
		6.3×9	60	45	EGN2DM1R8E09OT
	2.2	6.3×9	68	50	EGN2DM2R2E09OT
		6.3×12	74	55	EGN2DM2R2E12OT
	2.8	6.3×9	74	55	EGN2DM2R8E09OT
		6.3×12	80	60	EGN2DM2R8E12OT
	3.3	6.3×9	86	65	EGN2DM3R3E09OT
		6.3×12	96	72	EGN2DM3R3E12OT
	4.7	6.3×12	128	102	EGN2DM4R7E12OT
		8×9	135	107	EGN2DM4R7F09OT
	5.6	8×12	154	122	EGN2DM4R7F12OT
		8×9	150	120	EGN2DM5R6F09OT
	6.8	8×12	165	132	EGN2DM5R6F12OT
		8×9	158	125	EGN2DM6R8F09OT
	8.2	8×12	175	140	EGN2DM6R8F12OT
		8×9	180	144	EGN2DM8R2F09OT
	10	8×12	195	150	EGN2DM8R2F12OT
		8×9	210	158	EGN2DM100F09OT
	15	8×12	240	168	EGN2DM100F12OT
		8×12	325	228	EGN2DM150F12OT
	22	8×16	338	235	EGN2DM150F16OT
		8×20	382	248	EGN2DM220F20OT
	22	10×16	446	290	EGN2DM220G16OT
		10×20	492	320	EGN2DM220G20OT

WV (Vdc)	Cap (µF)	Size D×L(mm)	Rated ripple current (105°C)	Rated ripple current (130°C)	Part Number	
200 (2D)	33	10×20	570	370	EGN2DM330G20OT	
		12.5×16	570	370	EGN2DM330W16OT	
		12.5×20	600	390	EGN2DM330W20OT	
	47	12.5×16	600	390	EGN2DM470W16OT	
		12.5×20	628	408	EGN2DM470W20OT	
		12.5×25	660	430	EGN2DM470W25OT	
	68	12.5×25	760	494	EGN2DM680W25OT	
		16×20	800	520	EGN2DM680L20OT	
		16×20	880	572	EGN2DM820L20OT	
	82	12.5×30	1010	657	EGN2DM101W30OT	
		16×25	1060	690	EGN2DM101L25OT	
	100	12.5×40	1120	728	EGN2DM151W40OT	
		16×30	1220	793	EGN2DM151L30OT	
	250 (2E)	1	6.3×7	46	31	EGN2EM010E07OT
			6.3×9	52	40	EGN2EM010E09OT
		1.5	6.3×7	52	40	EGN2EM1R5E07OT
			6.3×9	56	42	EGN2EM1R5E09OT
		1.8	6.3×7	56	40	EGN2EM1R8E07OT
6.3×9			60	45	EGN2EM1R8E09OT	
2.2		6.3×9	68	50	EGN2EM2R2E09OT	
		6.3×12	74	55	EGN2EM2R2E12OT	
2.8		6.3×9	74	55	EGN2EM2R8E09OT	
		6.3×12	80	60	EGN2EM2R8E12OT	
3.3		6.3×9	86	65	EGN2EM3R3E09OT	
		6.3×12	100	74	EGN2EM3R3E12OT	
4.7		8×9	120	95	EGN2EM4R7F09OT	
		8×12	154	122	EGN2EM4R7F12OT	
5.6		8×9	150	120	EGN2EM5R6F09OT	
		8×12	165	132	EGN2EM5R6F12OT	
6.8		8×9	158	125	EGN2EM6R8F09OT	
		8×12	216	162	EGN2EM6R8F12OT	
8.2	8×12	245	180	EGN2EM8R2F12OT		
	8×16	274	192	EGN2EM8R2F16OT		
	10×9	235	172	EGN2EM8R2G09OT		
10	8×12	265	185	EGN2EM100F12OT		
	8×16	294	205	EGN2EM100F16OT		
15	8×16	340	221	EGN2EM150F16OT		
	8×20	378	245	EGN2EM150F20OT		
22	10×16	462	300	EGN2EM220G16OT		
	12.5×16	550	358	EGN2EM330W16OT		
33	12.5×20	610	398	EGN2EM330W20OT		
	12.5×16	610	398	EGN2EM470W16OT		
47	12.5×20	648	420	EGN2EM470W20OT		
	12.5×25	805	523	EGN2EM680W25OT		
68	16×20	830	540	EGN2EM680L20OT		
	12.5×35	966	628	EGN2EM101W35OT		
100	16×25	1030	668	EGN2EM101L25OT		
	12.5×50	1288	838	EGN2EM151W50OT		
150	16×35	1400	910	EGN2EM151L35OT		
	18×25	1330	865	EGN2EM151M25OT		

Radial Type

CD11GN series

■ STANDARD RATINGS (Rated ripple current: mA rms/105°C 100kHz or mA rms/130°C 100kHz)

WV (Vdc)	Cap (μF)	Size D×L(mm)	Rated ripple current (105°C)	Rated ripple current (130°C)	Part Number
350 (2V)	1	6.3×9	52	40	EGN2VM010E09OT
	1.5	6.3×12	65	50	EGN2VM1R5E12OT
		8×9	68	52	EGN2VM1R5F09OT
	1.8	6.3×12	70	54	EGN2VM1R8E12OT
		8×9	74	57	EGN2VM1R8F09OT
	2.2	6.3×12	78	60	EGN2VM2R2E12OT
		8×9	82	63	EGN2VM2R2F09OT
	2.8	8×9	86	65	EGN2VM2R8F09OT
		8×12	90	68	EGN2VM2R8F12OT
	3.3	8×9	95	71	EGN2VM3R3F09OT
		8×12	100	75	EGN2VM3R3F12OT
	4.7	8×12	135	108	EGN2VM4R7F12OT
	5.6	8×12	140	109	EGN2VM5R6F12OT
		8×16	160	125	EGN2VM5R6F16OT
	6.8	8×16	170	123	EGN2VM6R8F16OT
		8×20	195	142	EGN2VM6R8F20OT
	8.2	8×20	250	164	EGN2VM8R2F20OT
	10	10×16	275	178	EGN2VM100G16OT
		10×20	300	195	EGN2VM100G20OT
	15	10×20	380	247	EGN2VM150G20OT
22	12.5×20	476	309	EGN2VM220W20OT	
33	16×20	600	390	EGN2VM330L20OT	
47	16×20	740	480	EGN2VM470L20OT	
68	18×25	880	572	EGN2VM680M25OT	
100	18×30	1160	754	EGN2VM101M30OT	
400 (2G)	1	6.3×9	62	55	EGN2GM010E09OT
		6.3×12	66	60	EGN2GM010E12OT
	1.2	6.3×12	68	62	EGN2GM1R2E12OT
	1.5	8×9	75	68	EGN2GM1R5F09OT
		8×12	86	75	EGN2GM1R5F12OT
	1.8	8×9	80	70	EGN2GM1R8F09OT
		8×12	90	78	EGN2GM1R8F12OT
	2.2	6.3×12	87	72	EGN2GM2R2E12OT
		8×12	92	80	EGN2GM2R2F12OT
	2.8	8×12	108	85	EGN2GM2R8F12OT
		8×16	120	96	EGN2GM2R8F16OT
	3.3	8×12	120	96	EGN2GM3R3F12OT
		8×16	128	102	EGN2GM3R3F16OT
	4.7	8×12	148	110	EGN2GM4R7F12OT
		8×16	158	120	EGN2GM4R7F16OT
	5.6	8×12	153	116	EGN2GM5R6F12OT
		10×12	162	122	EGN2GM5R6G12OT
	6.8	10×16	180	135	EGN2GM5R6G16OT
		8×20	202	142	EGN2GM6R8F20OT
	8.2	10×16	210	148	EGN2GM6R8G16OT
		10×16	252	164	EGN2GM8R2G16OT
	10	10×20	266	174	EGN2GM8R2G20OT
		10×16	288	187	EGN2GM100G16OT
	15	10×20	304	198	EGN2GM100G20OT
		8×40	340	220	EGN2GM150F40OT
	22	12.5×16	360	234	EGN2GM150W16OT
		12.5×20	400	260	EGN2GM150W20OT
	33	8×50	476	310	EGN2GM220F50OT
		12.5×20	490	318	EGN2GM220W20OT
	47	12.5×25	532	346	EGN2GM220W25OT
10×45		627	408	EGN2GM330G45OT	
100	16×20	560	364	EGN2GM330L20OT	

WV (Vdc)	Cap (μF)	Size D×L(mm)	Rated ripple current (105°C)	Rated ripple current (130°C)	Part Number
400 (2G)	47	12.5×40	660	429	EGN2GM470W40OT
		16×25	700	455	EGN2GM470L25OT
	68	12.5×55	870	566	EGN2GM680W55OT
		18×25	835	543	EGN2GM680M25OT
		18×35	1090	708	EGN2GM101M35OT
450 (2W)	1	8×9	64	56	EGN2WM010F09OT
		8×12	68	62	EGN2WM010F12OT
	1.5	8×12	84	74	EGN2WM1R5F12OT
		10×9	90	76	EGN2WM1R5G09OT
	1.8	8×12	90	76	EGN2WM1R8F12OT
		10×9	95	80	EGN2WM1R8G09OT
	2.2	8×16	92	78	EGN2WM2R2F16OT
	2.8	8×16	120	96	EGN2WM2R8F16OT
	3.3	8×16	125	100	EGN2WM3R3F16OT
	4.7	8×20	168	125	EGN2WM4R7F20OT
10×12		150	110	EGN2WM4R7G12OT	
5.6	10×16	180	135	EGN2WM5R6G16OT	
6.8	10×16	200	132	EGN2WM6R8G16OT	
	10×20	220	154	EGN2WM6R8G20OT	
8.2	10×16	235	153	EGN2WM8R2G16OT	
	10×20	266	174	EGN2WM8R2G20OT	
10	10×25	304	198	EGN2WM100G25OT	
	12.5×16	290	188	EGN2WM100W16OT	
15	8×45	400	260	EGN2WM150F45OT	
	12.5×20	400	260	EGN2WM150W20OT	
22	10×40	500	325	EGN2WM220G40OT	
	16×20	500	325	EGN2WM220L20OT	
33	10×50	615	400	EGN2WM330G50OT	
	16×25	665	432	EGN2WM330L25OT	
47	12.5×45	720	468	EGN2WM470W45OT	
	16×35	818	532	EGN2WM470L35OT	
68	18×30	900	585	EGN2WM680M30OT	
	18×35	1110	722	EGN2WM101M35OT	
100	18×40	1180	768	EGN2WM101M40OT	
500 (2H)	10	12.5×20	288	/	EGN2HM100W20OT
		12.5×25	302	/	EGN2HM100W25OT
	15	12.5×25	396	/	EGN2HM150W25OT
		16×20	396	/	EGN2HM150L20OT
	22	12.5×35	504	/	EGN2HM220W35OT
		16×25	504	/	EGN2HM220L25OT
	33	18×25	630	/	EGN2HM330M25OT
	47	18×30	792	/	EGN2HM470M30OT
	68	22×35	1100	/	EGN2HM680O35OT
	82	22×35	1200	/	EGN2HM820O35OT
100	22×35	1480	/	EGN2HM101O35OT	