

CD11GHS series

- Miniaturized, long life, economical type
- Endurance: 6,000 hours at 105°C
- RoHS Compliant

Upgrade

CD11GH



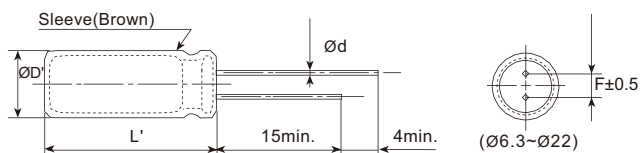
CD11GHS



SPECIFICATIONS

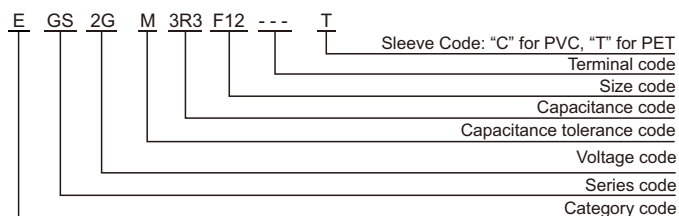
Items	Characteristics										
Category Temperature Range	-40~+105°C										
Rated Voltage Range	140~500 V _{dc}										
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)										
Leakage Current	140~400 V _{dc}	450~500 V _{dc}		Where, I: Max.leakage current (μA), C:Nominal capacitance (μF), V: Rated voltage (V) (at 20°C after 2 minutes)							
	I≤0.02CV+10μA	I≤0.03CV+10μA									
Dissipation Factor (tanδ)	Rated Voltage(V _{dc})	140	160	200	250	315	350	400	450	500	(at 20°C, 120Hz)
	Dissipation Factor (Max.)	0.15	0.15	0.15	0.15	0.20	0.20	0.20	0.20	0.24	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V _{dc})	140	160	200	250	315	350	400	450	500	(at 120Hz)
	Z(-25°C)/Z(+20°C)	3	3	3	3	5	5	5	6	6	
	Z(-40°C)/Z(+20°C)	6	6	6	6	6	6	6	9	15	
Endurance	The specifications listed below shall be satisfied when the capacitors are restored to 20°C after DC voltage plus rated ripple current is applied for 6,000 hours at 105°C.										
	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	13	16	18	22
ød	0.5	0.5	0.6	0.6	0.6	0.6	0.8	0.8	0.8
F	2.5	3.5		5.0	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

Freq.(Hz)	120	1k	10k	100k
Rated voltage(V _{dc})				
160~450	0.50	0.80	0.90	1.00

CD11GHS series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size ΦD×L (mm)	Rated ripple current (mA rms/105°C, 100kHz)	Part Number
140	10	6.3×12	100	EGS2AM100E12---T
	15	6.3×12	125	EGS2AM150E12---T
	22	8×12	250	EGS2AM220F12---T
	33	10×12	365	EGS2AM330G12---T
	47	8×20	430	EGS2AM470F20---T
	68	10×20	520	EGS2AM680G20---T
	100	12.5×16	650	EGS2AM101W16---T
	150	12.5×25	750	EGS2AM151W25---T
160	220	16×20	850	EGS2AM221L20---T
	1	6.3×9	36	EGS2CM010E09---T
	1.5	6.3×9	45	EGS2CM1R5E09---T
	2.2	6.3×9	56	EGS2CM2R2E09---T
	3.3	6.3×9	67	EGS2CM3R3E09---T
	4.7	6.3×9	72	EGS2CM4R7E09---T
	5.6	6.3×9	75	EGS2CM5R6E09---T
	6.8	6.3×9	84	EGS2CM6R8E09---T
	8.2	6.3×9	105	EGS2CM8R2E09---T
	10	6.3×12	145	EGS2CM100E12---T
	10	8×9	165	EGS2CM100F09---T
	15	8×9	215	EGS2CM150F09---T
	22	8×12	306	EGS2CM220F12---T
	22	10×12	350	EGS2CM220G12---T
	33	10×12	400	EGS2CM330G12---T
	47	10×16	460	EGS2CM470G16---T
	68	10×20	560	EGS2CM680G20---T
	68	12.5×16	570	EGS2CM680W16---T
	82	12.5×20	665	EGS2CM820W20---T
	100	12.5×20	720	EGS2CM101W20---T
	150	12.5×25	780	EGS2CM151W25---T
	150	16×20	780	EGS2CM151L20---T
	220	16×25	980	EGS2CM221L25---T
	330	18×30	1145	EGS2CM331M30---T
200	1	6.3×9	38	EGS2DM010E09---T
	1.5	6.3×9	50	EGS2DM1R5E09---T
	2.2	6.3×9	60	EGS2DM2R2E09---T
	3.3	6.3×9	74	EGS2DM3R3E09---T
	4.7	6.3×12	90	EGS2DM4R7E12---T
	5.6	6.3×12	95	EGS2DM5R6E12---T
	5.6	8×9	95	EGS2DM5R6F09---T
	6.8	8×12	120	EGS2DM6R8F12---T
	8.2	8×12	160	EGS2DM8R2F12---T
	10	8×12	185	EGS2DM100F12---T
	15	8×16	250	EGS2DM150F16---T
	22	10×16	400	EGS2DM220G16---T
	33	10×20	450	EGS2DM330G20---T
	47	10×20	550	EGS2DM470G20---T
	47	12.5×20	610	EGS2DM470W20---T
	68	12.5×20	635	EGS2DM680W20---T
	82	12.5×20	705	EGS2DM820W20---T
	100	12.5×25	735	EGS2DM101W25---T
	100	16×20	735	EGS2DM101L20---T
	150	16×25	855	EGS2DM151L25---T
	150	16×30	920	EGS2DM151L30---T
250	1	6.3×9	40	EGS2EM010E09---T
	1.5	6.3×9	54	EGS2EM1R5E09---T
	2.2	6.3×9	71	EGS2EM2R2E09---T
	3.3	6.3×12	83	EGS2EM3R3E12---T
	4.7	6.3×12	91	EGS2EM4R7E12---T
	4.7	8×12	102	EGS2EM4R7F12---T
	5.6	8×9	95	EGS2EM5R6F09---T
	6.8	8×12	109	EGS2EM6R8F12---T
	8.2	8×12	132	EGS2EM8R2F12---T
	10	8×12	170	EGS2EM100F12---T
	10	10×12	210	EGS2EM100G12---T

WV (Vdc)	Cap (μF)	Size ΦD×L (mm)	Rated ripple current (mA rms/105°C, 100kHz)	Part Number
250	15	8×16	295	EGS2EM150F16---T
	15	10×12	295	EGS2EM150G12---T
	22	8×16	360	EGS2EM220F16---T
	22	10×16	400	EGS2EM220G16---T
	33	10×20	480	EGS2EM330G20---T
	33	12.5×20	530	EGS2EM330W20---T
	47	12.5×20	627	EGS2EM470W20---T
	68	12.5×25	675	EGS2EM680W25---T
	68	16×20	675	EGS2EM680L20---T
	82	16×20	730	EGS2EM820L20---T
	100	16×20	780	EGS2EM101L20---T
	150	16×30	930	EGS2EM151L30---T
315	150	18×25	930	EGS2EM151M25---T
	2.2	6.3×9	71	EGS2FM2R2E09---T
	3.3	6.3×9	78	EGS2FM3R3E09---T
	4.7	6.3×12	95	EGS2FM4R7E12---T
	5.6	8×9	100	EGS2FM5R6F09---T
	6.8	8×9	110	EGS2FM6R8F09---T
	8.2	8×12	130	EGS2FM8R2F12---T
	10	10×12	215	EGS2FM100G12---T
	15	10×16	325	EGS2FM150G16---T
	22	10×20	420	EGS2FM220G20---T
	33	12.5×20	540	EGS2FM330W20---T
	47	12.5×25	645	EGS2FM470W25---T
350	1	6.3×9	58	EGS2VM010E09---T
	1.5	6.3×9	68	EGS2VM1R5E09---T
	2.2	6.3×9	85	EGS2VM2R2E09---T
	3.3	8×12	110	EGS2VM3R3F12---T
	4.7	8×12	120	EGS2VM4R7F12---T
	5.6	8×12	130	EGS2VM5R6F12---T
	6.8	8×12	160	EGS2VM6R8F12---T
	8.2	8×16	190	EGS2VM8R2F16---T
	10	8×16	210	EGS2VM100F16---T
	10	10×16	230	EGS2VM100G16---T
	15	10×16	280	EGS2VM150G16---T
	22	10×20	385	EGS2VM220G20---T
	22	12.5×20	430	EGS2VM220W20---T
	33	12.5×20	515	EGS2VM330W20---T
	47	16×20	650	EGS2VM470L20---T
	68	16×25	760	EGS2VM680L25---T
	68	18×20	760	EGS2VM680M20---T
	82	16×30	910	EGS2VM820L30---T
	82	18×25	910	EGS2VM820M25---T
	100	16×30	960	EGS2VM101L30---T
	100	18×25	960	EGS2VM101M25---T
400	1	6.3×9	70	EGS2GM010E09---T
	1.5	6.3×9	74	EGS2GM1R5E09---T
	2.2	6.3×9	85	EGS2GM2R2E09---T
	2.2	8×9	90	EGS2GM2R2F09---T
	3.3	8×12	120	EGS2GM3R3F12---T
	4.7	8×12	140	EGS2GM4R7F12---T
	5.6	8×12	150	EGS2GM5R6F12---T
	5.6	10×12	160	EGS2GM5R6G12---T
	6.8	8×12	165	EGS2GM6R8F12---T
	6.8	10×12	180	EGS2GM6R8G12---T
	8.2	10×12	200	EGS2GM8R2G12---T
	10	10×16	252	EGS2GM100G16---T
	12	10×20	290	EGS2GM120G20---T
	15	10×20	300	EGS2GM150G20---T
	15	12.5×20	320	EGS2GM150W20---T

CD11GHS series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size ΦD×L(mm)	Rated ripple current (mA _{rms} /105°C, 100kHz)	Part Number
400	22	12.5×20	400	EGS2GM220W20---T
	33	13×20	465	EGS2GM330K20---T
	33	16×20	520	EGS2GM330L20---T
	47	16×20	580	EGS2GM470L20---T
	56	16×25	650	EGS2GM560L25---T
	68	16×25	710	EGS2GM680L25---T
	68	18×25	760	EGS2GM680M25---T
	82	16×30	810	EGS2GM820L30---T
	82	18×25	810	EGS2GM820M25---T
	100	18×30	920	EGS2GM101M30---T
450	150	18×40	1280	EGS2GM151M40---T
	1	6.3×9	60	EGS2WM010E09---T
	1.5	8×9	70	EGS2WM1R5F09---T
	2.2	8×9	93	EGS2WM2R2F09---T
	3.3	8×12	120	EGS2WM3R3F12---T
	4.7	8×12	130	EGS2WM4R7F12---T
	5.6	10×12	150	EGS2WM5R6G12---T
	6.8	10×12	170	EGS2WM6R8G12---T
	8.2	10×16	210	EGS2WM8R2G16---T
	10	10×16	235	EGS2WM100G16---T
	15	12.5×20	350	EGS2WM150W20---T
	22	12.5×20	425	EGS2WM220W20---T
	33	12.5×25	470	EGS2WM330W25---T
	33	16×20	510	EGS2WM330L20---T
	47	16×25	640	EGS2WM470L25---T
	68	18×25	760	EGS2WM680M25---T
	82	18×30	860	EGS2WM820M30---T
	100	18×35	940	EGS2WM101M35---T
	150	18×45	1100	EGS2WM151M45---T
500	10	12.5×20	259	EGS2HM100W20---T
	15	12.5×20	320	EGS2HM150W20---T
	15	16×20	356	EGS2HM150L20---T
	22	16×20	405	EGS2HM220L20---T
	33	18×25	567	EGS2HM330M25---T
	47	18×30	713	EGS2HM470M30---T
	56	18×30	770	EGS2HM560M30---T
	68	18×35	900	EGS2HM680M35---T
	68	22×35	1000	EGS2HM680O35---T
	82	22×35	1150	EGS2HM820O35---T
	100	22×35	1400	EGS2HM101O35---T

※ Specifications subject to change without notice.