

# CD11GM series

## STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size DxL(mm)	Rated ripple current (mA rms@105°C, 100kHz)	Part Number
160	4.7	6.3x9	54	EPM2CM4R7E09---T
	5.6	6.3x9	58	EPM2CM5R6E09---T
	6.8	6.3x12	70	EPM2CM6R8E12---T
	8.2	6.3x12	100	EPM2CM8R2E12---T
	10	6.3x12	135	EPM2CM100E12---T
	10	8x9	135	EPM2CM100F09---T
	15	8x9	155	EPM2CM150F09---T
	22	8x12	220	EPM2CM220F12---T
	22	10x12	260	EPM2CM220G12---T
	33	10x16	320	EPM2CM330G16---T
	47	10x16	365	EPM2CM470G16---T
	56	10x20	450	EPM2CM560G20---T
	68	10x20	500	EPM2CM680G20---T
	100	12.5x20	650	EPM2CM101W20---T
	4.7	6.3x9	52	EPM2DM4R7E09---T
200	5.6	6.3x12	62	EPM2DM5R6E12---T
	6.8	6.3x12	76	EPM2DM6R8E12---T
	6.8	8x9	76	EPM2DM6R8F09---T
	8.2	8x12	95	EPM2DM8R2F12---T
	10	8x12	145	EPM2DM100F12---T
	15	8x12	170	EPM2DM150F12---T
	22	8x16	255	EPM2DM220F16---T
	22	10x12	255	EPM2DM220G12---T
	33	10x16	330	EPM2DM330G16---T
	47	10x20	420	EPM2DM470G20---T
	56	12.5x20	500	EPM2DM560W20---T
	2.2	6.3x9	48	EPM2EM2R2E09---T
	3.3	6.3x12	78	EPM2EM3R3E12---T
	4.7	6.3x12	85	EPM2EM4R7E12---T
	4.7	8x12	90	EPM2EM4R7F12---T
250	6.8	8x12	96	EPM2EM6R8F12---T
	8.2	8x12	100	EPM2EM8R2F12---T
	10	8x12	150	EPM2EM100F12---T
	15	8x16	195	EPM2EM150F16---T
	15	10x12	195	EPM2EM150G12---T
	22	10x16	280	EPM2EM220G16---T
	33	10x20	360	EPM2EM330G20---T
	33	12.5x16	360	EPM2EM330W16---T
	47	12.5x20	455	EPM2EM470W20---T
	1	6.3x9	35	EPM2GM010E09---T
	1.5	6.3x9	40	EPM2GM1R5E09---T
	2.2	6.3x12	60	EPM2GM2R2E12---T
	2.2	8x9	60	EPM2GM2R2F09---T
	3.3	6.3x12	70	EPM2GM3R3E12---T
400	3.3	8x9	70	EPM2GM3R3F09---T
	4.7	8x12	95	EPM2GM4R7F12---T
	5.6	8x12	108	EPM2GM5R6F12---T
	6.8	8x12	117	EPM2GM6R8F12---T
	6.8	10x12	130	EPM2GM6R8G12---T
	10	8x16	170	EPM2GM100F16---T
	10	10x12	170	EPM2GM100G12---T
	15	10x16	230	EPM2GM150G16---T
	22	10x20	320	EPM2GM220G20---T
	22	12.5x16	320	EPM2GM220W16---T
	33	13x20	445	EPM2GM330K20---T
	47	16x20	600	EPM2GM470L20---T
	2.2	6.3x12	65	EPM2WM2R2E12---T
	2.2	8x9	65	EPM2WM2R2F09---T
	3.3	8x12	85	EPM2WM3R3F12---T
450	4.7	8x12	105	EPM2WM4R7F12---T
	6.8	10x12	140	EPM2WM6R8G12---T
	10	10x16	205	EPM2WM100G16---T
	15	10x20	265	EPM2WM150G20---T
	22	12.5x20	360	EPM2WM220W20---T
	33	16x20	500	EPM2WM330L20---T
	47	16x25	665	EPM2WM470L25---T

# RR series

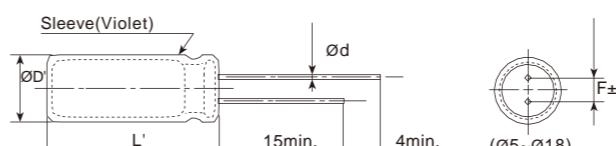
- High frequency, low impedance, high reliability
- Endurance: 2,000 hours at 105°C
- Suitable for switching power, UPS, power sources, etc.
- RoHS Compliant



## SPECIFICATIONS

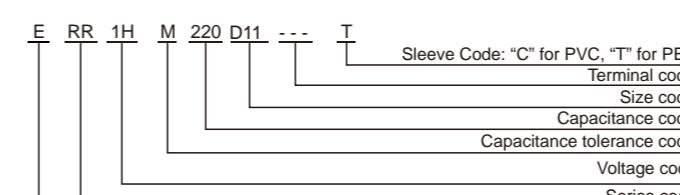
Items	Characteristics										
Category Temperature Range	-40~+105°C										
Rated Voltage Range	6.3~120 Vdc										
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)										
Leakage Current	I < 0.01CV or 3μA, whichever is greater. Where, I:Max.leakage current (μA), C:Nominal capacitance (μF), V: Rated voltage (V) (at 20°C after 2 minutes)										
Items	Rated Voltage(Vdc)	6.3	10	16	25	35	50	63	80	100	120
Dissipation Factor (tan δ)	Dissipation Factor (Max.)	0.22	0.18	0.14	0.12	0.10	0.08	0.08	0.08	0.12	
When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)											
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(Vdc)	6.3	10	16	25	35	50	63	80	100	120
	Z(-25°C)/Z(+20°C)	2	2	2	2	2	2	2	2	2	3
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 2,000 hours at 105 °C.										
	Capacitance Change	±20% of the initial value (6.3~10 Vdc: ±30%)									
	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 (6.3~10 Vdc: ±30%)									
	Dissipation Factor	200% of the initial specified value									
	Leakage Current	200% of the initial specified value									

## DIMENSIONS[mm]



ØD	5	6.3	8	10	12.5	13	16	18
Ød	0.5	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	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

**RR** series

## ■ STANDARD RATINGS

WV (V <sub>dc</sub> )	Cap (μF)	Size DxL (mm)	Impedance (max/20°C, 100kHz)	Rated ripple current (mA <sub> rms/105°C, 100kHz</sub> )	Part Number
6.3	220	6.3x7	0.350	218	ERR0JM221E07---T
	330	6.3x9	0.200	350	ERR0JM331E09---T
	470	6.3x9	0.180	400	ERR0JM471E09---T
	560	6.3x11	0.180	480	ERR0JM561E11---T
	560	8x9	0.120	550	ERR0JM561F09---T
	820	8x16	0.056	995	ERR0JM821F16---T
	820	10x9	0.085	800	ERR0JM821G09---T
	1000	10x13	0.053	1030	ERR0JM102G13---T
	1200	8x20	0.041	1250	ERR0JM122F20---T
	1200	10x16	0.038	1430	ERR0JM122G16---T
	1500	10x20	0.023	1820	ERR0JM152G20---T
	2200	10x25	0.022	2150	ERR0JM222G25---T
	3900	12.5x25	0.018	2770	ERR0JM392W25---T
	4700	12.5x30	0.016	3290	ERR0JM472W30---T
	5600	12.5x35	0.015	3400	ERR0JM562W35---T
	5600	16x20	0.018	3140	ERR0JM562L20---T
	6800	16x25	0.016	3460	ERR0JM682L25---T
10	100	5x11	0.550	250	ERR1AM101D11---T
	150	5x12	0.500	300	ERR1AM151D12---T
	220	6.3x11	0.130	405	ERR1AM221E11---T
	330	6.3x11	0.120	471	ERR1AM331E11---T
	470	6.3x12	0.091	630	ERR1AM471E12---T
	470	8x11	0.072	760	ERR1AM471F11---T
	680	8x12	0.070	830	ERR1AM681F12---T
	680	10x13	0.053	1030	ERR1AM681G13---T
	820	8x12	0.055	950	ERR1AM821F12---T
	1000	8x16	0.050	1074	ERR1AM102F16---T
	1000	10x16	0.038	1430	ERR1AM102G16---T
	1200	10x16	0.034	1550	ERR1AM122G16---T
	1500	10x16	0.034	1587	ERR1AM152G16---T
	2200	10x20	0.031	1978	ERR1AM222G20---T
	2200	12.5x20	0.028	2360	ERR1AM222W20---T
	3300	12.5x20	0.025	2490	ERR1AM332W20---T
	4700	13x25	0.022	2835	ERR1AM472K25---T
	5600	16x25	0.016	3460	ERR1AM562L25---T
16	100	5x11	0.570	320	ERR1CM101D11---T
	100	6.3x11	0.350	326	ERR1CM101E11---T
	220	6.3x11	0.120	530	ERR1CM221E11---T
	220	8x11	0.085	570	ERR1CM221F11---T
	330	6.3x12	0.110	564	ERR1CM331E12---T
	330	8x12	0.072	760	ERR1CM331F12---T
	470	8x16	0.056	795	ERR1CM471F16---T
	470	10x13	0.053	1030	ERR1CM471G13---T
	680	8x16	0.045	1070	ERR1CM681F16---T
	1000	8x16	0.043	1380	ERR1CM102F16---T
	1000	10x13	0.052	1380	ERR1CM102G13---T
	1500	10x20	0.031	1980	ERR1CM152G20---T
	2200	12.5x20	0.040	2640	ERR1CM222W20---T
	3300	13x25	0.024	2850	ERR1CM332K25---T
	4700	16x25	0.016	3560	ERR1CM472L25---T
25	47	5x11	0.720	250	ERR1EM470D11---T
	68	5x11	0.650	260	ERR1EM680D11---T
	100	5x11	0.400	350	ERR1EM101D11---T
	100	6.3x11	0.280	405	ERR1EM101E11---T
	220	6.3x12	0.140	597	ERR1EM221E12---T
	220	8x11	0.072	760	ERR1EM221F11---T
	330	8x12	0.085	930	ERR1EM331F12---T
	470	8x16	0.055	1010	ERR1EM471F16---T
	470	10x13	0.057	1200	ERR1EM471G13---T
	680	8x16	0.057	980	ERR1EM681F16---T
	680	10x16	0.050	1280	ERR1EM681G16---T
	820	10x20	0.036	1500	ERR1EM821G20---T
	1000	10x20	0.035	1820	ERR1EM102G20---T
	1500	12.5x20	0.022	2150	ERR1EM152W20---T
	2200	12.5x25	0.018	2770	ERR1EM222W25---T

**RR** series

## ■ STANDARD RATINGS

WV (V <sub>dc</sub> )	Cap (μF)	Size DxL (mm)	Impedance (max/20°C, 100kHz)	Rated ripple current (mA <sub> rms/105°C, 100kHz</sub> )	Part Number
100	47	8x12	0.450	235	ERR1KM470F12---T
	47	10x13	0.340	380	ERR1KM470G13---T
	68	8x16	0.300	360	ERR1KM680F16---T
	68	10x13	0.300	380	ERR1KM680G13---T
	100	8x25	0.350	453	ERR1KM101F25---T
	100	10x16	0.350	460	ERR1KM101G16---T
	150	10x20	0.170	740	ERR1KM151G20---T
	220	13x20	0.100	880	ERR1KM221K20---T
	330	13x25	0.080	1010	ERR1KM331K25---T
	330	16x20	0.078	1030	ERR1KM331L20---T
	470	16x25	0.048	1250	ERR1KM471L25---T
	680	16x35	0.038	1660	ERR1KM681L35---T
	680	18x30	0.035	1650	ERR1KM681M30---T
	1000	18x35	0.030	2300	ERR1KM102M35---T
120	10	6.3x12	6.000	85	ERR2BM100E12---T
	15	6.3x12	4.000	110	ERR2BM150E12---T
	22	8x12	3.000	140	ERR2BM220F12---T
	33	8x16	2.000	220	ERR2BM330F16---T
	33	10x13	3.000	240	ERR2BM330G13---T
	47	8x20	2.800	285	ERR2BM470F20---T
	47	10x16	2.800	300	ERR2BM470G16---T
	56	10x16	2.500	350	ERR2BM560G16---T
	68	10x16	2.200	350	ERR2BM680G16---T
	82	10x20	2.000	380	ERR2BM820G20---T
	100	10x25	1.700	420	ERR2BM101G25---T
	120	12.5x20	1.500	500	ERR2BM121W20---T
	150	12.5x25	1.100	620	ERR2BM151W25---T
	220	13x30	0.850	760	ERR2BM221K30---T
	220	16x20	1.200	760	ERR2BM221L20---T
	330	16x30	0.400	950	ERR2BM331L30---T
	330	18x25	0.450	930	ERR2BM331M25---T
	470	16x40	0.350	1030	ERR2BM471L40---T
	470	18x30	0.350	1030	ERR2BM471M30---T

Specifications subject to change without notice.

Radial Type

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