

CD11GM series

STANDARD RATINGS

WV (Vdc)	Cap (µF)	Size D×L(mm)	Rated ripple current (mA _{RMS} /105°C, 100kHz)	Part Number	
160	4.7	6.3×9	54	EGM2CM4R7E09---T	
	5.6	6.3×9	58	EGM2CM5R6E09---T	
	6.8	6.3×12	70	EGM2CM6R8E12---T	
	8.2	6.3×12	100	EGM2CM8R2E12---T	
	10	6.3×12	135	EGM2CM100E12---T	
	10	8×9	135	EGM2CM100F09---T	
	15	8×9	155	EGM2CM150F09---T	
	22	8×12	220	EGM2CM220F12---T	
	22	10×12	260	EGM2CM220G12---T	
	33	10×16	320	EGM2CM330G16---T	
	47	10×16	365	EGM2CM470G16---T	
	56	10×20	450	EGM2CM560G20---T	
	68	10×20	500	EGM2CM680G20---T	
	100	12.5×20	650	EGM2CM101W20---T	
200	4.7	6.3×9	52	EGM2DM4R7E09---T	
	5.6	6.3×12	62	EGM2DM5R6E12---T	
	6.8	6.3×12	76	EGM2DM6R8E12---T	
	6.8	8×9	76	EGM2DM6R8F09---T	
	8.2	8×12	95	EGM2DM8R2F12---T	
	10	8×12	145	EGM2DM100F12---T	
	15	8×12	170	EGM2DM150F12---T	
	22	8×16	255	EGM2DM220F16---T	
	22	10×12	255	EGM2DM220G12---T	
	33	10×16	330	EGM2DM330G16---T	
	47	10×20	420	EGM2DM470G20---T	
	56	12.5×20	500	EGM2DM560W20---T	
	250	2.2	6.3×9	48	EGM2EM2R2E09---T
		3.3	6.3×12	78	EGM2EM3R3E12---T
4.7		6.3×12	85	EGM2EM4R7E12---T	
4.7		8×12	90	EGM2EM4R7F12---T	
6.8		8×12	96	EGM2EM6R8F12---T	
8.2		8×12	100	EGM2EM8R2F12---T	
10		8×12	150	EGM2EM100F12---T	
15		8×16	195	EGM2EM150F16---T	
15		10×12	195	EGM2EM150G12---T	
22		10×16	280	EGM2EM220G16---T	
33		10×20	360	EGM2EM330G20---T	
33		12.5×16	360	EGM2EM330W16---T	
47		12.5×20	455	EGM2EM470W20---T	
400		1	6.3×9	35	EGM2GM010E09---T
	1.5	6.3×9	40	EGM2GM1R5E09---T	
	2.2	6.3×12	60	EGM2GM2R2E12---T	
	2.2	8×9	60	EGM2GM2R2F09---T	
	3.3	6.3×12	70	EGM2GM3R3E12---T	
	3.3	8×9	70	EGM2GM3R3F09---T	
	4.7	8×12	95	EGM2GM4R7F12---T	
	5.6	8×12	108	EGM2GM5R6F12---T	
	6.8	8×12	117	EGM2GM6R8F12---T	
	6.8	10×12	130	EGM2GM6R8G12---T	
	10	8×16	170	EGM2GM100F16---T	
	10	10×12	170	EGM2GM100G12---T	
	15	10×16	230	EGM2GM150G16---T	
	22	10×20	320	EGM2GM220G20---T	
22	12.5×16	320	EGM2GM220W16---T		
33	13×20	445	EGM2GM330K20---T		
47	16×20	600	EGM2GM470L20---T		
450	2.2	6.3×12	65	EGM2WM2R2E12---T	
	2.2	8×9	65	EGM2WM2R2F09---T	
	3.3	8×12	85	EGM2WM3R3F12---T	
	4.7	8×12	105	EGM2WM4R7F12---T	
	6.8	10×12	140	EGM2WM6R8G12---T	
	10	10×16	205	EGM2WM100G16---T	
	15	10×20	265	EGM2WM150G20---T	
	22	12.5×20	360	EGM2WM220W20---T	
	33	16×20	500	EGM2WM330L20---T	
	47	16×25	665	EGM2WM470L25---T	

Specifications subject to change without notice.

RR series

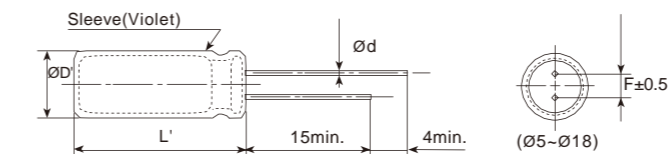
- High frequency, low impedance, high reliability
- Endurance: 2,000 hours at 105°C
- Suitable for switching power, UPS, power sources, etc.
- **RoHS Compliant**



SPECIFICATIONS

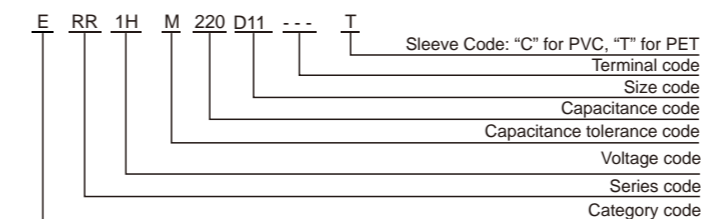
Items	Characteristics
Category Temperature Range	-40~+105°C
Rated Voltage Range	6.3~120 V _{dc}
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)
Leakage Current	I ≤ 0.01CV or 3µA, whichever is greater. Where, I: Max. leakage current (µA), C: Nominal capacitance (µF), V: Rated voltage (V) (at 20°C after 2 minutes)
Dissipation Factor (tan δ)	Rated Voltage(V _{dc}) : 6.3 10 16 25 35 50 63 80 100 120 Dissipation Factor (Max.): 0.22 0.18 0.14 0.12 0.10 0.08 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(V _{dc}) : 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 (at 120Hz)
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 V _{dc} : ±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 V _{dc} : ±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

Frequency correction factor for ripple current

Cap.(µF) \ Freq.(Hz)	120	1k	10k	100k
Cap. <220	0.40	0.75	0.90	1.00
220 Cap. <680	0.50	0.85	0.94	1.00
680 Cap. <2200	0.60	0.87	0.95	1.00
2200 Cap. <4700	0.75	0.90	0.95	1.00
Cap. 4700	0.85	0.95	0.98	1.00

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