

5mmL(高), +105°C, Low Impedance(低阻抗品)

SAMXON®

FEATURES

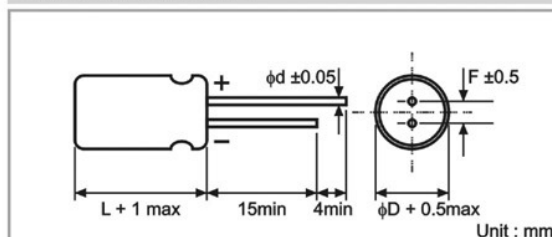
1. Low impedance over wide temperature range of $-40^{\circ}\text{C}\sim 105^{\circ}\text{C}$, with 5mm height.
2. Suitable for DC-DC converters where smaller case size and lower impedance are required.



SPECIFICATIONS

Item	Performance Characteristics									
Operating Temperature Range	-40 to +105°C									
Rated Working Voltage Range	6.3 to 35V									
Nominal Capacitance Range	1 to 100μF									
Capacitance Tolerance	±20% (120Hz, +20°C)									
Leakage Current	I ≤ 0.01CV or 3(μA) whichever is greater measured after 2 minutes application of rated working voltage at +20°C									
tan δ (120Hz, +20°C)	Working Voltage (V)	6.3	10	16	25	35				
	tan δ (max.)	0.22	0.20	0.18	0.14	0.12				
Low Temperature Characteristics	Impedance ratio max. at 120Hz									
	Working Voltage (V)	6.3	10	16	25	35				
	Z-25°C / Z+20°C	2	2	2	2	2				
	Z-40°C / Z+20°C	4	4	3	3	3				
High Temperature Loading	Test conditions					Post test requirements at +20°C				
	Duration : 1000 hours					Leakage current : ≤ Initial specified value				
	Ambient temp. : +105°C					Cap. change : within ±20% of initial measured value				
	Applied voltage : Rated DC working voltage with rated ripple current					tan δ : ≤ 200% of initial specified value				
Shelf Life	Test conditions					Post test requirements at +20°C				
	Duration : 1000 hours					Leakage current : ≤ Initial specified value				
	Ambient temp. : +105°C					Cap. change : within ±20% of initial measured value				
	Applied voltage : (None)					tan δ : ≤ 200% of initial specified value				
Others	JIS C - 5101 (IEC 60384)									

CASE SIZE TABLE



ϕD	4	5	6.3
F	1.5	2.0	2.5
ϕd	0.45		

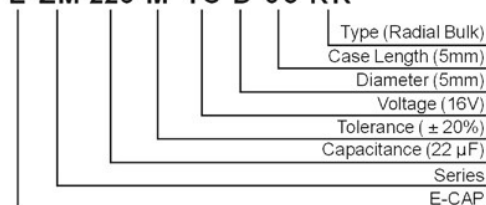
RIPPLE CURRENT MULTIPLIER

Frequency Coefficient						
Cap(μF)	Coefficient	Freq.(Hz)	120	1k	10k	100k
~ 100			0.40	0.75	0.90	1.00

PART NUMBER SYSTEM (EXAMPLE: 16V22 μ F)

1 2 3 4 5 6 7 8 9 10 11 12 13 14

E ZM 226 M 1C D 05 RR



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STANDARD RATINGS

Voltage (Code)		6.3V (0J)			10V (1A)			16V (1C)		
Cap.(μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
1	105									
1.5	155									
2.2	225									
3.3	335									
4.7	475									
6.8	685									
10	106							4 x 5	5.0	50
15	156							5 x 5	2.6	80
22	226	4 x 5	5.0	50	5 x 5	2.6	80	5 x 5	2.6	80
33	336	5 x 5	2.6	80	5 x 5	2.6	80	6.3 x 5	1.3	115
47	476	5 x 5	2.6	80	6.3 x 5	1.3	115	6.3 x 5	1.3	115
68	686	6.3 x 5	1.3	115						
100	107	6.3 x 5	1.3	115						

Maximum Allowable Ripple Current (mA rms) at 105°C 100kHz

Case Size φD x L(mm)

Maximum Impedance (Ω) at 20°C 100kHz

Voltage (Code)		25V (1E)			35V (1V)					
Cap.(μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current			
1	105				4 x 5	5.0	50			
1.5	155				4 x 5	5.0	50			
2.2	225				4 x 5	5.0	50			
3.3	335				4 x 5	5.0	50			
4.7	475	4 x 5	5.0	50	4 x 5	5.0	50			
6.8	685	4 x 5	5.0	50	5 x 5	2.6	80			
10	106	5 x 5	2.6	80	5 x 5	2.6	80			
15	156	6.3 x 5	1.3	115	6.3 x 5	1.3	115			
22	226	6.3 x 5	1.3	115	6.3 x 5	1.3	115			
33	336	6.3 x 5	1.3	115						

Maximum Allowable Ripple Current (mA rms) at 105°C 100kHz

Case Size φD x L(mm)

Maximum Impedance (Ω) at 20°C 100kHz