

ZS Series

SAMXON®

7mmL(高), +105°C, Low Impedance(低阻抗品)

FEATURES

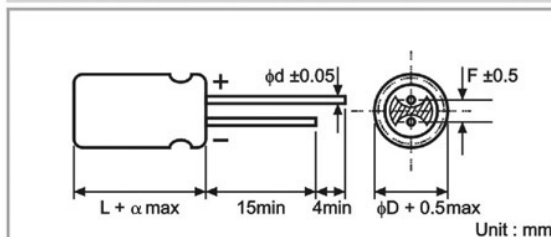
1. Low impedance, with 7mm height, wide operating temperature range.



SPECIFICATIONS

Item	Performance Characteristics								
Operating Temperature Range	-40 to +105°C								
Rated Working Voltage Range	6.3 to 35V								
Nominal Capacitance Range	6.8 to 220μF								
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.)	0.18	0.16	0.14	0.12	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	3	3	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



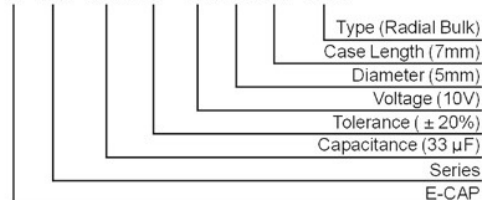
φD	4	5	6.3	8
F	1.5	2.0	2.5	3.5
φd	0.45			0.45
α	(L≤7) 1		(L≥9) 1.5	

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient					
Cap(μF)	Coefficient	Freq.(Hz)	120	1k	10k
~ 180	0.40	0.75	0.90	1.00	
220	0.50	0.85	0.94	1.00	

PART NUMBER SYSTEM (EXAMPLE:10V33μF)

1 2 3 4 5 6 7 8 9 10 11 12 13 14
E ZS 336 M 1A D 07 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
6.8	685									
10	106									
15	156							4 x 7	3.3	70
22	226				4 x 7	3.3	70	5 x 7	1.7	110
33	336	5 x 7	1.7	110	5 x 7	1.7	110	6.3 x 7	0.8	160
47	476	5 x 7	1.7	110	6.3 x 7	0.8	160	6.3 x 7	0.8	160
68	686	6.3 x 7	0.8	160	6.3 x 7	0.8	160	8 x 7	0.5	200
100	107	6.3 x 7	0.8	160	8 x 7	0.5	200	8 x 7	0.5	200
150	157	8 x 7	0.5	200	8 x 7	0.5	200			
220	227	8 x 7	0.5	200						

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			
6.8	685				4 x 7	3.3	70			
10	106	4 x 7	3.3	70	5 x 7	1.7	110			
15	156	5 x 7	1.7	110	6.3 x 7	0.8	160			
22	226	5 x 7	1.7	110	6.3 x 7	0.8	160			
33	336	6.3 x 7	0.8	160	8 x 7	0.5	200			
47	476	8 x 7	0.5	200						
68	686	8 x 7	0.5	200						

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

Case Size φD x L(mm)

Maximum Impedance (Ω) at 20°C 100kHz