

7mmL(高), -40°C~ +105°C

FEATURES

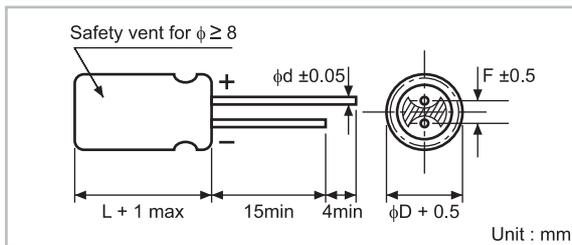
1. Rated working voltage range 6.3 to 50V DC operation temperature range -40 to +105°C.
2. This series is for communication equipments, switching power supply, industrial measuring instruments, automotive electric products, etc.



SPECIFICATIONS

Item	Performance Characteristics							
Operating Temperature Range	-40 to +105°C							
Rated Working Voltage Range	6.3 to 50V							
Nominal Capacitance Range	0.1 to 220μF							
Capacitance Tolerance	±20% (120Hz, +20°C)							
Leakage Current	I ≤ 0.01CV or 3(μA) after 2 minutes application of rated working voltage at +20°C							
Dissipation Factor tan δ (120Hz, +20°C)	Working Voltage (V)	6.3	10	16	25	35	50	
	tan δ (max.)	0.24	0.21	0.18	0.15	0.13	0.12	
Low Temperature Characteristics	Impedance ratio max. at 120Hz							
	Working Voltage (V)	6.3	10	16	25	35	50	
	Z-25°C / Z+20°C	4	2	2	2	2	2	
	Z-40°C / Z+20°C	8	5	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			tan δ : ≤ 200% of initial specified value			
Shelf Life	Test conditions			Post test requirements at +20°C				
	Duration	: 1000 hours			Same limits for high temperature loading.			
	Ambient temp.	: +105°C						
	Applied voltage	: (None)						
Others	JIS C - 5141 JIS C - 5102							

CASE SIZE TABLE



φD	4	5	6.3	8				
F	1.5	2.0	2.5	3.5				
φd	0.45							

RIPPLE CURRENT MULTIPLIER

Temperature Coefficient						Frequency Coefficient						
Temperature(°C)	~ 55	60	70	85	105	Cap(μF)	Freq.(Hz)	50	120	300	1K	10K ~
Factor	2.23	2.17	2.00	1.75	1.00			≤ 47	0.75	1.00	1.35	1.57
						47 ~ 220	0.80	1.00	1.23	1.34	1.50	

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DIMENSIONS

Voltage (Code)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)	
Cap.(μF)	Code	Case Size	Ripple Current						
0.1	104								
0.22	224								
0.33	334								
0.47	474								
1	105								
2.2	225								
3.3	335								
4.7	475								
10	106					4 x 7	29	5 x 7	33
22	226	4 x 7	34	5 x 7	38	5 x 7	44	6.3 x 7	51
33	336	5 x 7	42	5 x 7	47	6.3 x 7	57	6.3 x 7	63
47	476	5 x 7	50	6.3 x 7	59	6.3 x 7	68	8 x 7	78
100	107	6.3 x 7	77	8 x 7	96	8 x 7	107		
220	227	8 x 7	130	8 x 7	140				

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz

Case Size φD x L(mm)

Voltage (Code)		35V (1V)		50V (1H)					
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current				
0.1	104			4 x 7	1.0				
0.22	224			4 x 7	2.3				
0.33	334			4 x 7	3.5				
0.47	474			4 x 7	5.0				
1	105			4 x 7	10				
2.2	225			4 x 7	19				
3.3	335			4 x 7	24				
4.7	475	4 x 7	24	5 x 7	29				
10	106	5 x 7	36	6.3 x 7	44				
22	226	6.3 x 7	57	8 x 7	65				
33	336	8 x 7	72						
47	476								
100	107								
220	227								

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz

Case Size φD x L(mm)