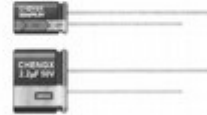


KS Series

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) 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	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	6	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			Same limits for high temperature loading.				
	Ambient temp. : +105°C							
	Applied voltage : (None)							
Others	JIS C - 5101 (IES 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)	50	120	300	1k	10k~
	≤ 47		0.75	1.00	1.35	1.57	2.00
	68~470		0.80	1.00	1.23	1.34	1.50

KS Series

7mmL(高), -40°C ~ +105°C

STANDARD RATINGS

Voltage (Code)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	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	4 x 7	29
22	226	4 x 7	34	4 x 7	34	4 x 7	38	5 x 7	45
33	336	4 x 7	37	4 x 7	40	5 x 7	50	5 x 7	55
47	476	4 x 7	44	5 x 7	50	5 x 7	60	6.3 x 7	67
100	107	5 x 7	67	6.3 x 7	83	6.3 x 7	92	6.3 x 7	95
220	227	6.3 x 7	112	8 x 7	140			8 x 7	158

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	6.3 x 7	62						
47	476	6.3 x 7	78						
100	107	8 x 9	95						
220	227								

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

Case Size φD x L(mm)