

此商品编号对应的规格参数是: 50V 1uF 4X7

此商品的实物图片为:



## 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 220 $\mu$ F	
Capacitance Tolerance	$\pm 20\%$ (120Hz, +20°C)	
Leakage Current	$I \leq 0.01CV$ or $3(\mu A)$ Whichever is greater measured after 2 minutes application of rated working voltage at +20°C	
$\tan \delta$ (120Hz, +20°C)	Working Voltage (V)	6.3    10    16    25    35    50
	$\tan \delta$ (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 Ambient temp. : +105°C Applied voltage : Rated DC working voltage with rated ripple current	Leakage current : $\leq$ Initial specified value Cap. Change : within $\pm 20\%$ of initial measured value $\tan \delta$ : $\leq 200\%$ of initial specified value
Shelf Life	Test conditions	Post test requirements at +20°C
	Duration : 1000 hours Ambient temp. : +105°C Applied voltage : (None)	Same limits for high temperature loading.
Others	JIS C - 5101 ( IES 60384 )	

### CASE SIZE TABLE

	$\phi D$	4	5	6.3	8				
	F	1.5	2.0	2.5	3.5				
	$\phi d$	0.45		0.45					
	$\alpha$	(L $\leq$ 7) 1		(L $\geq$ 9) 1.5					

### RIPPLE CURRENT MULTIPLIER

Frequency Coefficient						
Cap( $\mu$ F)	Coefficient	50	120	300	1k	10k~
$\leq 47$		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.( $\mu$ F)	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  $\phi$ D x L(mm)

Voltage (Code)		35V (1V)		50V (1H)					
Cap.( $\mu$ F)	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  $\phi$ D x L(mm)

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