

# KS series

## Features

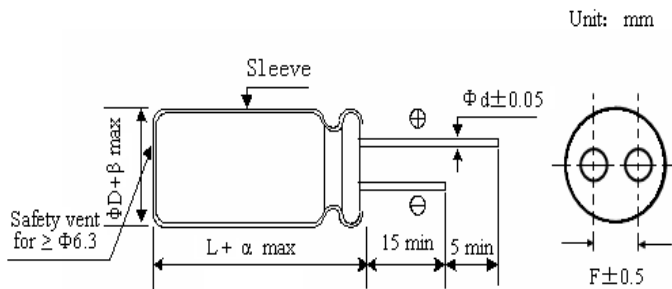
- ◆ 7(9)mm Height , 1000 hours at 105°C.
- ◆ RoHS Compliant .



## Specifications

Item	Performance Characteristics						
Temperature Range	-40~+105°C						
Rated Voltage Range	6.3~50Vdc						
Capacitance Range	1~470μF						
Capacitance Tolerance	±20% (120Hz, +20°C)						
Leakage Current (+20°C,max.)	I≤0.01CV or 3 (μA) After 2 minutes, whichever is greater measured with rated working voltage applied						
Dissipation Factor (tgδ) 120Hz, +20°C	Working Voltage(Vdc)	6.3	10	16	25	35	50
	D.F (%) max.	24	21	18	15	13	12
Low Temperature Characteristics (120Hz) Impedance ratio max.	Working Voltage(Vdc)	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
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 105°C						
	Capacitance Change	≤±20% of the initial value (6.3~16V: within±30%)					
	D.F.( tgδ)	≤200% of the initial specified value					
	Leakage Current	≤The initial specified value					
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the load life characteristics listed above.						
Others	JISC-5101(IEC 60384)						

## Diagram of Dimensions



## Frequency Multipliers

μF \ Hz	50	120	300	1K	10K~
< 68	0.75	1.00	1.35	1.57	2.00
68~220	0.80	1.00	1.23	1.34	1.50

ΦD	4	5	6.3	8	
L	7	7	7	7	9
F	1.5	2.0	2.5	3.5	3.5
Φd	0.45	0.45	0.45	0.45	0.5
α	(L≤7)+ 1.0		(L≥9) +1.5		
β	+0.5				

## Standard Ratings

wv (V)	Cap (μF)	Case Size	Ripple Current	wv (V)	Cap (μF)	Case Size	Ripple Current	wv (V)	Cap (μF)	Case Size	Ripple Current
6.3	22	4×7	34	16	22	4×7	38	35	1	4×7	12
	33	4×7	37		47	5×7	60		4.7	4×7	24
	47	4×7	44		100	6.3×7	92		10	5×7	36
	100	5×7	67		220	6.3×7	136		22	6.3×7	57
	220	6.3×7	112		470	8×9	254		33	6.3×7	62
10	22	4×7	34	25	10	4×7	29	50	1	4×7	10
	47	5×7	50		22	4×7	45		4.7	5×7	29
	100	6.3×7	83		33	5×7	55		10	6.3×7	44
	220	8×7	140		47	6.3×7	67		33	8×9	86

Max Allowable Ripple Current (mA,rms) at 105°C 120Hz, Case Size ΦD×L(mm).

Above size is the standard size for our product. If you need special size please contact our sales offices.