

NKS series

Features

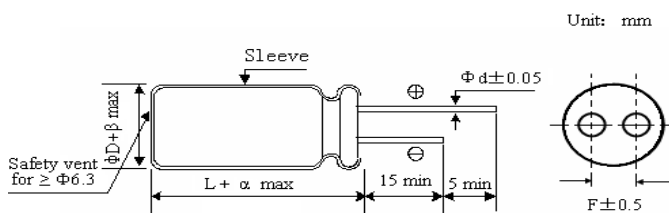
- ◆ 7mm Height, Nonpolar, 1000 hours at 105°C.
- ◆ Suitable for use in polarity and change circuits.
- ◆ RoHS Compliant .



Specifications

Item	Performance Characteristics						
Temperature Range	-40~+105°C						
Rated Voltage Range	6.3~50Vdc						
Capacitance Range	0.1~220µF						
Capacitance Tolerance	±20% (120Hz, +20°C)						
Leakage Current (+20°C,max.)	I≤0.05CV or 10 (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	20	16	16	14	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	3	2	2	2	2
	Z - 40°C / Z+20 °C	8	6	4	4	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(The polarity shall be reversed every 250 hours).						
	Capacitance Change	≤±20% of the initial value.					
	D.F.(tgδ)	≤200% of 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

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
F	1.5	2.0	2.5	3.5
Φd	0.45	0.45	0.45	0.45
α	1.0			
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	WV (V)	Cap (µF)	Case Size	Ripple Current
6.3	33	5×7	29	16	10	5×7	21	35	1	4×7	7	50	0.1	4×7	0.7
	47	6.3×7	41		22	6.3×7	36		2.2	4×7	10		0.22	4×7	1.6
	100	8×7	67		47	6.3×7	53		3.3	4×7	11		0.47	4×7	3.5
	220	8×7	98		100	8×7	88		4.7	5×7	15		1	4×7	7.0
10	10	4×7	17	25	4.7	5×7	15	35	10	6.3×7	26	50	2.2	4×7	10
	22	5×7	28		10	6.3×7	25		22	8×7	43		4.7	6.3×7	20
	47	6.3×7	47		22	6.3×7	37		33	8×7	53		10	8×7	31
	100	8×7	77		47	8×7	61		47	8×7	61		22	8×7	46

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.