NSKV SERIES

105˚C Bi-polar, Lead Free Reflow Soldering.

◆FEATURES

- Lead Free reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.

◆SPECIFICATIONS

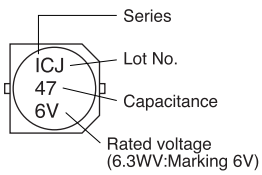
Items	Characteristics
Category Temperature Range	−55～+105˚C
Rated Voltage Range	6.3～50V.DC
Capacitance Tolerance	±20% (20˚C, 120Hz)
Leakage Current(MAX)	I=0.05CV or 10 μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)
Dissipation Factor(MAX) (tan δ)	Rated Voltage (V): 6.3 / 10 / 16 / 25 / 35 / 50 tan δ: 0.35 / 0.26 / 0.24 / 0.22 / 0.20 / 0.18 (20˚C, 120Hz)
Endurance	After applying rated voltage with rated ripple current for 1000hrs at 105˚C, (The polarity shall be reversed every 250hrs.), the capacitors shall meet the following requirements. Capacitance Change: Within ±25% of the initial value. Dissipation Factor: Not more than 200% of the specified value. Leakage Current: Not more than the specified value.
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage (V): 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 / 8 / 4 / 4 / 3 / 3 (120Hz)

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)		60(50)	120	500	1k	10k≦
Coefficient	0.1～1 μF	0.50	1.00	1.20	1.30	1.50
	2.2～4.7 μF	0.65	1.00	1.20	1.30	1.50
	10～47 μF	0.80	1.00	1.20	1.30	1.50

◆MARKING

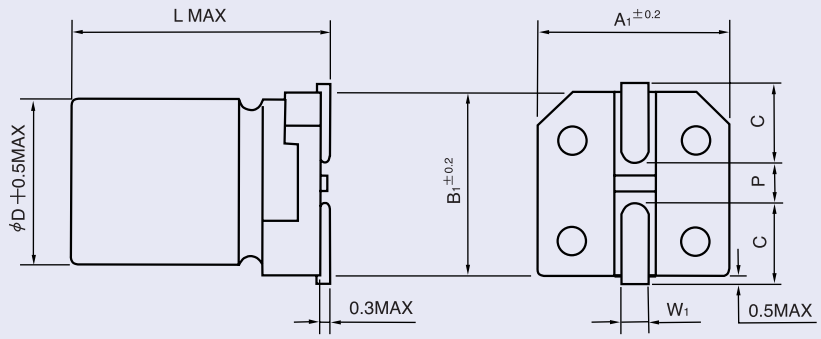


◆PART NUMBER

□□□ Rated Voltage / NSKV Series / □□□□□ Rated Capacitance / □ Capacitance Tolerance / □□□ Option / D×L Case Size

◆DIMENSIONS

(mm)



φD	L	A1	B1	C	W1	P
4	5.5	4.3	4.3	1.8	0.5～0.8	1.0
5	5.5	5.3	5.3	2.2	0.5～0.8	1.3
6.3	5.5	6.6	6.6	2.7	0.5～0.8	1.8

◆STANDARD SIZE, RATED RIPPLE CURRENT

Size φD× L(mm), Ripple Current (mA r.m.s./105℃, 120Hz)

WV (V.DC) / Cap(μF)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1											4×5.5	1.0
0.22											4×5.5	2.0
0.33											4×5.5	2.8
0.47											4×5.5	4.0
1											4×5.5	8.4
2.2									4×5.5	8.4	5×5.5	13
3.3							4×5.5	10			5×5.5	17
4.7					4×5.5	12			5×5.5	18	6.3×5.5	20
10			4×5.5	17	5×5.5	23			6.3×5.5	29		
22	5×5.5	28			6.3×5.5	37						
33			6.3×5.5	35								
47	6.3×5.5	45										