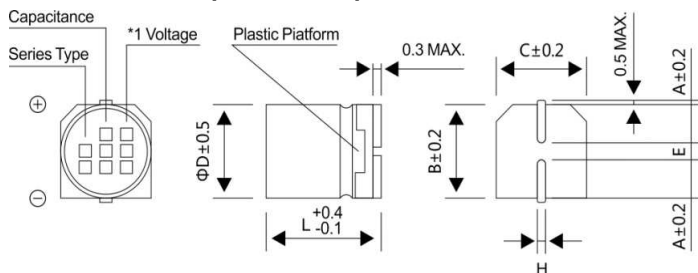


KP**Series****Non-Polarized, Wide temperature**

- Non-Polarized with temperature range -55 ~ +105°C
- Load life of 1000 hours
- RoHS Compliance

**SPECIFICATIONS**

Item	Characteristics				
Operation Temperature Range	-55 ~ +105℃				
Voltage Range	6.3 ~ 50V				
Capacitance Range	0.1 ~ 47μF				
Capacitance Tolerance	± 20 % (at 120Hz , 20℃)				
Leakage Current	WV(V)	6.3 ~ 50			
	Time	After 2 minutes (application of rated voltage)			
	L.C.	I≤0.05CV or +10μA, whichever is greater			
Dissipation Factor (MAX) (tanδ) (at 120Hz ,20℃)	WV(V)	6.3	10	16, 25	35, 50
	tanδ	0.24	0.2	0.17	0.15
Low Temp.Impedance Stability at 120Hz	WV(V)	6.3	10	16, 25	35, 50
	Z(-25℃)/ Z(+20℃)	4	3	2	2
	Z(-55)℃/ Z+20℃	8	6	4	3
Load Life	After 1000hrs. application of the rated voltage at 105℃(the polarity needs to exchange every 250 hrs.), They meet characteristics listed below.				
	Capacitance change	Within ±20% of initial value			
	Dissipation Factor	200% or less of initial specified value			
	Leakage Current	initial specified value or less			
Shelf Life	After leaving capacitors under no load at 105℃ for 1000 hours, they meet the specified value for load life characteristics listed above				
Resistance to Soldering Heat	After reflow soldering and restored at room temperature, they meet ther characteristics listed below.				
	Capacitance change	Within ±10% of initial value			
	Dissipation Factor	initial specified value or less			
	Leakage Current	initial specified value or less			
Marking	Black print on the case top				

DRAWING (Unit: mm)

*1. Voltage mark for 6.3V is 【6V】

DIMENSIONS (Unit: mm)

ΦDxL	4x5.4	5x5.4	6.3x5.4
A	2.0	2.2	2.6
B	4.3	5.3	6.6
C	4.3	5.3	6.6
E±0.2	1.0	1.4	1.9
L	5.4	5.4	5.4
H	0.5~0.8	0.5~0.8	0.5~0.8

KP
 Series

■ DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

<div> <div>WV</div> <div>μF</div> </div>	Code	6.3		10		16		25		35		50	
		0J		1A		1C		1E		1V		1H	
0.1	0R1											4x5.4	1.0
0.22	R22											4x5.4	2.0
0.33	R33											4x5.4	2.8
0.47	R47											4x5.4	4.0
1	010											4x5.4	8.4
2.2	2R2									4x5.4	8.4	5x5.4	13
3.3	3R3							5x5.4	12	5x5.4	16	5x5.4	17
4.7	4R7					4x5.4	12	5x5.4	16	5x5.4	18	6.3x5.4	20
10	100			4x5.4	17	5x5.4	23	6.3x5.4	27	6.3x5.4	29		
22	220	5x5.4	28	6.3x5.4	33	6.3x5.4	37						
33	330	6.3x5.4	37	6.3x5.4	41	6.3x5.4	49					Case size	Ripple current
47	470	6.3x5.4	45										

・Case size ΦDxL (mm), ripple current (mA rms) at 105℃, 120Hz

■ FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency	~50Hz	120Hz	300Hz	1KHz	10KHz~
Coefficient	0.70	1.00	1.17	1.36	1.50