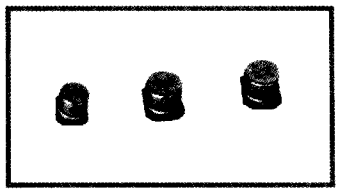
V-CHIP ALUMINUM ELECTROLYTIC CAPACITORS 片式铝电解电容器

JOEMASTER

KP Non-Polarized with Wide Temperature Series



- Chip type, bi-polarized with high wide temperature range up to +105°C.
- Designed for surface mounting on high density circuit board.
- Emboss carrier tape packing system is available for automatic insertion.

◆ Specifications

Items	Performance Characteristics
Operating Temperature Range	-55~+105°C
Voltage Range	6.3~50V
Capacitance Range	0.1~47μF
Capacitance Tolerance	±20% at 120 Hz, 20°C
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.05CV or10μA, whichever is greater.
Tan δ	Measurement frequency: 120Hz, Temperature: 20°C

Rated voltage(V)	6.3	10	16	25	35	50
Tan δ (max)	0.24	0.20	0.17	0.17	0.15	0.15

Stability at Low Temperature — Measurement frequency: 120Hz

Rated voltage(V)		6.3	10	16	25	35	50
Impedance ratio ZT/Z20(max)	Z-25°C/Z+20°C	4	3	2	2	2	2
	Z-40°C/Z+20°C	8	6	4	4	3	3

Load Life

Afrer 1000 hours' application of rated voltage at 105°C with the polarty inverted every 250 hours, capacitors meet the characteristics requirements listed at right.

Capacitance Change	Within ± 20% of initial value
Tan δ	200% or less of initial specified value
Leakage Current	Initial specified value or less

Self Life

After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for load life characteristics listed above.

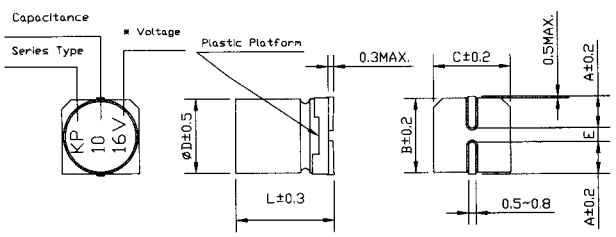
Resistance to Soldering Heat

The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristics requirements listed at right.

Capacitance Change	Within ± 10% of initial value
Tan δ	Initial specified value or less
Leakage Current	Initial specified value or less

Applicable Standards — EIAJ RC 2366

◆ Chip Type



(mm)

ΦD×L	4×5.8	5×5.8	6.3×5.8
A	1.8	2.1	2.4
B	4.3	5.3	6.6
C	4.3	5.3	6.6
E	1.0	1.3	2.2
L	5.8	5.8	5.8

* Voltage mark for 6.3V is [6V]

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KP Series

• Dimensions

Cap uF \ WV		6.3		10		16		25		35		50	
		0J		1A		1C		1E		1V		1H	
0.1	0R1											4×5.8	1.0
0.22	R22											4×5.8	2.0
0.33	R33											4×5.8	2.8
0.47	R47											4×5.8	4.0
1	010											4×5.8	8.4
2.2	2R2									4×5.8	8.4	5×5.8	13
3.3	3R3							5×5.8	12	5×5.8	16	5×5.8	17
4.7	4R7					4×5.8	12	5×5.8	16	5×5.8	18	6.3×5.8	20
10	100			4×5.8	17	5×5.8	23	6.3×5.8	27	6.3×5.8	29		
22	220	5×5.8	28	6.3×5.8	33	6.3×5.8	37						
33	330	6.3×5.8	37	6.3×5.8	41	6.3×5.8	49						
47	470	6.3×5.8	45									Case size	Allowable ripple

Allowable ripple (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