

Surface Mount Type Aluminum Electrolytic Capacitor

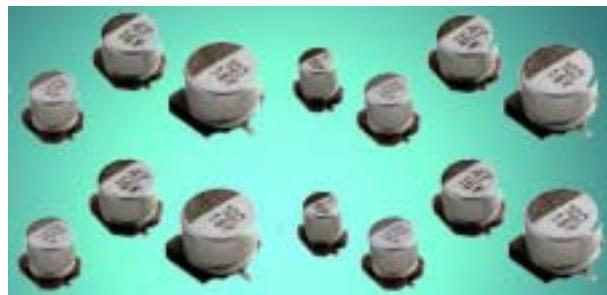
V-CHIP Type VP Bi-polar

KOME

Surface mount, bi-polar (non polarised) aluminium electrolytic capacitors suitable for applications where reverse voltage may be applied. Available in a wide range of values and voltages, which are listed below. Supplied taped and reeled.

Bi-polar (non-polarised)

- Endurance 1000 hours at 85°C
- Excellent performance/size characteristics
- Suitable for wave & reflow soldering
- Capacitance tolerance $\pm 20\%$
- Supplied taped & reeled

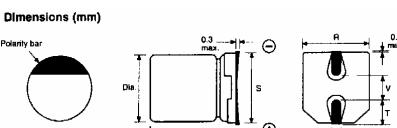


HOW TO ORDER

| KVP | 1H | 100 | M | F6R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|-------|-----------|------|------|----|-----|----|-----|----|-----|----|-----|----|-----|---|----------------|-----------------|-----------------|---|---|-----------|---|-----------|---|------------|---|-----|---------|-----|---------|-----|---------|
| Product Code | Voltage | Value | Tolerance | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VP | <table border="1"> <tr><td>0G</td><td>4V</td></tr> <tr><td>0J</td><td>6.3V</td></tr> <tr><td>1A</td><td>10V</td></tr> <tr><td>1C</td><td>16V</td></tr> <tr><td>1E</td><td>25V</td></tr> <tr><td>1V</td><td>35V</td></tr> <tr><td>1H</td><td>50V</td></tr> </table> | 0G | 4V | 0J | 6.3V | 1A | 10V | 1C | 16V | 1E | 25V | 1V | 35V | 1H | 50V | <table border="1"> <tr><td>100=10μF</td></tr> <tr><td>101=100μF</td></tr> <tr><td>221=220μF</td></tr> </table> | 100=10 μ F | 101=100 μ F | 221=220 μ F | <table border="1"> <tr><td>F</td><td>$\pm 1\%$</td></tr> <tr><td>J</td><td>$\pm 5\%$</td></tr> <tr><td>M</td><td>$\pm 20\%$</td></tr> </table> | F | $\pm 1\%$ | J | $\pm 5\%$ | M | $\pm 20\%$ | <table border="1"> <tr><td>F6R</td><td>4.0X5.8</td></tr> <tr><td>F7R</td><td>5.0X5.8</td></tr> <tr><td>F8R</td><td>6.3X5.8</td></tr> </table> | F6R | 4.0X5.8 | F7R | 5.0X5.8 | F8R | 6.3X5.8 |
| 0G | 4V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0J | 6.3V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1A | 10V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1C | 16V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1E | 25V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1V | 35V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1H | 50V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100=10 μ F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 101=100 μ F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 221=220 μ F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | $\pm 1\%$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J | $\pm 5\%$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M | $\pm 20\%$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F6R | 4.0X5.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F7R | 5.0X5.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F8R | 6.3X5.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Specification

| | |
|-----------------------------|---|
| Endurance test | 1000 hours at 105°C |
| Capacitance tolerance | $\pm 20\%$ at 120Hz, 20°C |
| Ripple current (as listed) | measured at 120kHz, 85°C |
| Operating temperature range | -40°C to +85°C |
| Leakage current | <=0.05CV or 10 μ A (whichever is greater) after 2 min. |



Tan δ (max) at 120Hz , 20°C

| Rated voltage | 6.3V | 10V | 16V | 25V | 35V | 50V | d.c. |
|----------------|------|------|------|------|------|------|------|
| All case sizes | 0.24 | 0.20 | 0.17 | 0.17 | 0.15 | 0.15 | d.c. |

| Case Size | Dia. | L | R | S | T | U | V |
|-----------|------|---------------|-----|----------|-----|------|-----|
| 4.0 x 5.3 | 4.0 | 5.3 ± 0.2 | 4.3 | 5.5 max. | 1.8 | 0.65 | 1.0 |
| 5.0 x 5.3 | 5.0 | 5.3 ± 0.2 | 5.3 | 6.5 max. | 2.1 | 0.65 | 1.3 |
| 6.3 x 5.3 | 6.3 | 5.3 ± 0.2 | 6.6 | 7.8 max. | 2.4 | 0.65 | 2.2 |

Packaging

| Case Size | H | J | K | M | N | P |
|-----------|------|-----|-----|------|-----|-----|
| 4.0 x 5.3 | 12.0 | 5.0 | 5.0 | 8.0 | 5.5 | 5.8 |
| 5.0 x 5.3 | 12.0 | 6.0 | 6.0 | 12.0 | 5.5 | 5.8 |
| 6.3 x 5.3 | 12.0 | 7.0 | 7.0 | 12.0 | 7.5 | 5.8 |

TAPE

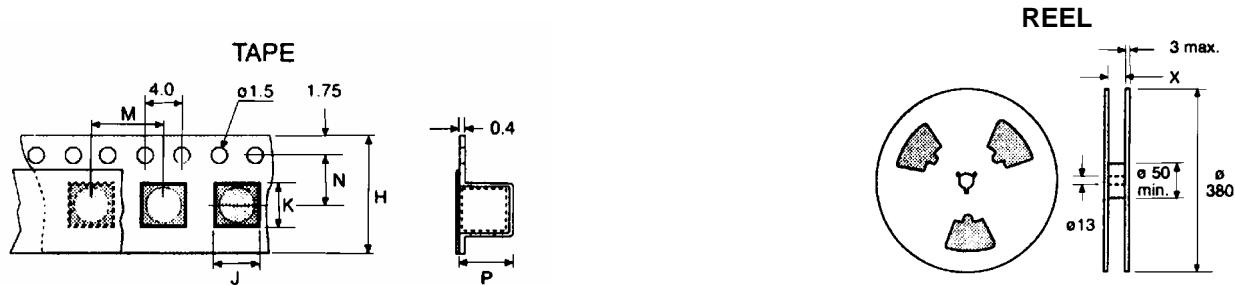
| Case Size | X | Reel Qty. |
|-----------|----|-----------|
| 4.0 x 5.3 | 14 | 2000pcs |
| 5.0 x 5.3 | 14 | 1000pcs |
| 6.3 x 5.3 | 18 | 1000pcs |

REEL

Surface Mount Type Aluminum Electrolytic Capacitor

V-CHIP Type VP Bi-polar

KOME



Marking

Printed on top surface of case.

Capacitance value

Voltage

Bar to indicate negative terminal

| Value (μ F) | Ripple Current (mA) | Case Size | KOME Part no. | Order code | SPLT pcs |
|---------------------|------------------------|-----------|------------------|---------------|-------------|
|---------------------|------------------------|-----------|------------------|---------------|-------------|

6.3 Volt

| | | | | | |
|-----|----|-----------|--------------|--------|------|
| 22 | 28 | 5.0 x 5.3 | KVP0J220MF2R | KVB220 | 1000 |
| 33 | 37 | 6.3 x 5.3 | KVP0J330MF3R | KVB330 | 1000 |
| 47 | 45 | 6.3 x 5.3 | KVP0J470MF3R | KVB470 | 1000 |
| 100 | 71 | 6.3 x 5.3 | KVP0J101MF3R | KVB101 | 1000 |

10 Volt

| | | | | | |
|-----|----|-----------|--------------|--------|------|
| 10 | 17 | 4.0 x 5.3 | KVP1A100MF1R | KVR100 | 2000 |
| 22 | 33 | 6.3 x 5.3 | KVP1A220MF3R | KVR220 | 1000 |
| 33 | 41 | 6.3 x 5.3 | KVP1A330MF3R | KVR330 | 1000 |
| 47 | 65 | 6.3 x 5.3 | KVP1A470MF3R | KVR470 | 1000 |
| 100 | 71 | 6.3 x 7.7 | KVP1A101MF3R | KVR101 | 1000 |

16 Volt

| | | | | | |
|-----|----|-----------|--------------|--------|------|
| 4.7 | 12 | 4.0 x 5.3 | KVP1C4R7MF1R | KVK4R7 | 2000 |
| 10 | 23 | 5.0 x 5.3 | KVP1C100MF2R | KVK100 | 1000 |
| 22 | 37 | 6.3 x 5.3 | KVP1C220MF3R | KVK220 | 1000 |
| 33 | 49 | 6.3 x 5.3 | KVP1C330MF3R | KVK330 | 1000 |

25 Volt

| | | | | | |
|-----|----|-----------|--------------|--------|------|
| 3.3 | 12 | 5.0 x 5.3 | KVP1E3R3MF2R | KVN3R3 | 1000 |
| 4.7 | 16 | 5.0 x 5.3 | KVP1E4R7MF2R | KVN4R7 | 1000 |
| 10 | 27 | 6.3 x 5.3 | KVP1E100MF3R | KVN100 | 1000 |

35 Volt

| | | | | | |
|-----|-----|-----------|--------------|--------|------|
| 2.2 | 8.4 | 4.0 x 5.3 | KVP1V2R2MF1R | KVW2R2 | 2000 |
| 3.3 | 16 | 5.0 x 5.3 | KVP1V3R3MF2R | KVW3R3 | 1000 |
| 4.7 | 18 | 5.0 x 5.3 | KVP1V4R7MF2R | KVW4R7 | 1000 |
| 10 | 29 | 6.3 x 5.3 | KVP1V100MF3R | KVW100 | 1000 |

50 Volt

| | | | | | |
|------|-----|-----------|--------------|--------|------|
| 0.10 | 1 | 4.0 x 5.3 | KVP1H0R1MF1R | KVL0R1 | 2000 |
| 0.22 | 2 | 4.0 x 5.3 | KVP1HR22MF1R | KVLR22 | 2000 |
| 0.33 | 2.8 | 4.0 x 5.3 | KVP1HR33MF1R | KVLR33 | 2000 |
| 0.47 | 4 | 4.0 x 5.3 | KVP1HR47MF1R | KVLR47 | 2000 |
| 1.0 | 8.4 | 4.0 x 5.3 | KVP1H1R0MF1R | KVL1R0 | 2000 |
| 2.2 | 13 | 5.0 x 5.3 | KVP1H2R2MF2R | KVL2R2 | 1000 |
| 3.3 | 17 | 5.0 x 5.3 | KVP1H3R3MF2R | KVL3R3 | 1000 |
| 4.7 | 20 | 6.3 x 5.3 | KVP1H4R7MF3R | KVL4R7 | 1000 |