



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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■ Dimensions

| V (Code) | | 10 (1A) | | | 16 (1C) | | | 25 (1E) | | | 35 (1V) | | | 50 (1H) | | |
|-----------|-----------|-----------------------|--------------------|----------------------|-----------------------|--------------------|----------------------|-----------------------|--------------------|----------------------|-----------------------|--------------------|----------------------|-----------------------|--------------------|----------------------|
| Cap. (μF) | Item Code | Case size φD × L (mm) | Impedance (Ω) MAX. | Rated ripple (mAmps) | Case size φD × L (mm) | Impedance (Ω) MAX. | Rated ripple (mAmps) | Case size φD × L (mm) | Impedance (Ω) MAX. | Rated ripple (mAmps) | Case size φD × L (mm) | Impedance (Ω) MAX. | Rated ripple (mAmps) | Case size φD × L (mm) | Impedance (Ω) MAX. | Rated ripple (mAmps) |
| 1 | 010 | | | | | | | | | | | | | ※8 × 11.5 | 2.00 | 35 |
| 2.2 | 2R2 | | | | | | | | | | | | | ※8 × 11.5 | 1.80 | 50 |
| 3.3 | 3R3 | | | | | | | | | | | | | ※8 × 11.5 | 1.50 | 60 |
| 4.7 | 4R7 | | | | | | | | | | | | | 8 × 11.5 | 1.15 | 85 |
| 10 | 100 | | | | | | | | | | | | | 8 × 11.5 | 0.75 | 180 |
| 22 | 220 | | | | | | | | | | | | | 8 × 11.5 | 0.50 | 250 |
| 33 | 330 | | | | | | | | | | | | | 8 × 11.5 | 0.45 | 300 |
| 47 | 470 | | | | | | | | | | | | | 8 × 11.5 | 0.35 | 440 |
| 100 | 101 | | | | 8 × 11.5 | 0.32 | 340 | 8 × 11.5 | 0.13 | 500 | 10 × 12.5 | 0.15 | 620 | 10 × 12.5 | 0.18 | 555 |
| 220 | 221 | 8 × 11.5 | 0.26 | 340 | 10 × 12.5 | 0.15 | 620 | 10 × 12.5 | 0.10 | 680 | 10 × 16 | 0.094 | 790 | 10 × 20 | 0.098 | 930 |
| 330 | 331 | 10 × 12.5 | 0.15 | 620 | 10 × 12.5 | 0.10 | 680 | 10 × 16 | 0.075 | 945 | 10 × 20 | 0.075 | 950 | 12.5 × 20 | 0.070 | 1330 |
| 470 | 471 | 10 × 12.5 | 0.10 | 680 | 10 × 16 | 0.075 | 945 | 10 × 20 | 0.057 | 1100 | 12.5 × 20 | 0.058 | 1330 | 12.5 × 25 | 0.055 | 1650 |
| 1000 | 102 | 10 × 20 | 0.057 | 1100 | 12.5 × 20 | 0.042 | 1490 | 12.5 × 25 | 0.033 | 1750 | 16 × 25 | 0.031 | 2010 | 16 × 31.5 | 0.031 | 2430 |
| 2200 | 222 | 12.5 × 25 | 0.033 | 1750 | 16 × 25 | 0.024 | 2300 | 16 × 31.5 | 0.020 | 2710 | 18 × 35.5 | 0.025 | 2790 | | | |
| 3300 | 332 | 16 × 25 | 0.024 | 2300 | 16 × 31.5 | 0.020 | 2710 | 18 × 31.5 | 0.017 | 3310 | | | | | | |
| 4700 | 472 | 16 × 31.5 | 0.020 | 2710 | 18 × 31.5 | 0.018 | 3270 | | | | | | | | | |

| V (Code) | | 63 (1J) | | | 80 (1K) | | | 100 (2A) | | |
|-----------|-----------|-----------------------|--------------------|----------------------|-----------------------|--------------------|----------------------|-----------------------|--------------------|----------------------|
| Cap. (μF) | Item Code | Case size φD × L (mm) | Impedance (Ω) MAX. | Rated ripple (mAmps) | Case size φD × L (mm) | Impedance (Ω) MAX. | Rated ripple (mAmps) | Case size φD × L (mm) | Impedance (Ω) MAX. | Rated ripple (mAmps) |
| 4.7 | 4R7 | | | | | | | ※8 × 11.5 | 2.00 | 130 |
| 10 | 100 | | | | | | | 8 × 11.5 | 1.50 | 150 |
| 22 | 220 | 8 × 11.5 | 2.00 | 130 | 8 × 11.5 | 1.50 | 150 | 10 × 12.5 | 0.80 | 480 |
| 33 | 330 | 8 × 11.5 | 1.50 | 150 | 10 × 12.5 | 0.80 | 480 | 10 × 12.5 | 0.80 | 480 |
| 47 | 470 | 10 × 12.5 | 0.59 | 530 | 10 × 12.5 | 0.80 | 480 | 10 × 16 | 0.55 | 630 |
| 100 | 101 | 10 × 16 | 0.41 | 690 | 10 × 20 | 0.39 | 790 | 12.5 × 20 | 0.25 | 990 |
| 220 | 221 | 12.5 × 20 | 0.16 | 1050 | 12.5 × 25 | 0.18 | 1240 | 16 × 25 | 0.11 | 1500 |
| 330 | 331 | 12.5 × 25 | 0.12 | 1290 | 12.5 × 31.5 | 0.16 | 1390 | 16 × 31.5 | 0.079 | 1790 |
| 470 | 471 | 12.5 × 31.5 | 0.097 | 1460 | 16 × 25 | 0.11 | 1500 | | | |

Rated ripple current (mAmps) at 125°C 100kHz
Impedance (Ω) MAX. at 20°C 100kHz

● Frequency coefficient of rated ripple current

| V | CV | Frequency | | | |
|-----------|-----------|-----------|-------|------|---------------|
| | | 120Hz | 300Hz | 1kHz | 10kHz or more |
| 10 to 100 | 1000 > CV | 0.50 | 0.64 | 0.83 | 1.00 |
| | 1000 ≤ CV | 0.67 | 0.79 | 0.91 | 1.00 |

| V (Code) | | 160 (2C) | | 200 (2D) | | 250 (2E) | | 350 (2V) | | 400 (2G) | | 450 (2W) | |
|-----------|-----------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|
| Cap. (μF) | Item Code | Case size φD × L (mm) | Rated ripple (mAmps) | Case size φD × L (mm) | Rated ripple (mAmps) | Case size φD × L (mm) | Rated ripple (mAmps) | Case size φD × L (mm) | Rated ripple (mAmps) | Case size φD × L (mm) | Rated ripple (mAmps) | Case size φD × L (mm) | Rated ripple (mAmps) |
| 4.7 | 4R7 | | | | | | | 10 × 20 | 53 | 10 × 20 | 53 | 10 × 25 | 58 |
| 10 | 100 | | | 10 × 20 | 78 | 10 × 20 | 78 | 10 × 25 | 85 | 10 × 25 | 86 | 12.5 × 20 | 86 |
| 22 | 220 | 10 × 20 | 115 | 10 × 25 | 126 | 12.5 × 20 | 128 | 12.5 × 25 | 139 | 12.5 × 31.5 | 142 | 16 × 25 | 154 |
| 33 | 330 | 10 × 25 | 154 | 12.5 × 20 | 157 | 12.5 × 25 | 171 | 16 × 25 | 189 | 16 × 25 | 189 | 16 × 31.5 | 203 |
| 47 | 470 | 12.5 × 20 | 187 | 12.5 × 25 | 204 | 16 × 25 | 225 | 16 × 31.5 | 243 | 16 × 31.5 | 243 | | |
| 68 | 680 | 12.5 × 25 | 245 | 16 × 20 | 250 | 16 × 31.5 | 292 | | | | | | |
| 100 | 101 | 16 × 25 | 329 | 16 × 25 | 329 | | | | | | | | |
| 150 | 151 | 16 × 31.5 | 434 | | | | | | | | | | |

Rated ripple current (mAmps) at 125°C 120Hz

● Frequency coefficient of rated ripple current

| V | Cap. (μF) | Frequency | | | | | |
|------------|-----------|-----------|-------|-------|------|-------|----------------|
| | | 50Hz | 120Hz | 300Hz | 1kHz | 10kHz | 100kHz or more |
| 160 to 450 | 4.7 to 33 | 0.75 | 1.00 | 1.25 | 1.50 | 1.75 | 1.80 |
| | 47 to 150 | 0.80 | 1.00 | 1.15 | 1.30 | 1.40 | 1.50 |