

CAPACITOR ARRAYS



Capacitor arrays combine separate multi-layer ceramic capacitors of the same value in a single passive component. The primary advantages of this device are a reduction in PCB space and placement time. The arrays are offered in three standard dielectrics and feature barrier terminations and tape & reel packaging.

FEATURES

- Multiple Caps in One Chip
- Reduces Circuit Size
- Easier Handling
- Lower Placement Cost
- Increased Throughput

APPLICATIONS

- Cellular / Pagers
- Handheld Equipment
- PCMCIA Cards
- Camcorders
- PC's & Peripherals

CAPACITANCE / VOLTAGE SELECTION

| CHIP SIZE | RATED VOLTAGE | NPO DIELECTRIC | | X7R DIELECTRIC | | Y5V DIELECTRIC | |
|------------|---------------|----------------|--------|----------------|--------------|----------------|--------------|
| | | min. | MAX. | min. | MAX. | min. | MAX. |
| A11 / 0405 | 10 VDC | 10 pF | 680 pF | 560 pF | .047 μ F | | |
| | 16 VDC | 10 pF | 680 pF | 560 pF | .033 μ F | | |
| | 25 VDC | 10 pF | 680 pF | 560 pF | .022 μ F | | |
| A18 / 0612 | 16 VDC | | | .033 μ F | .047 μ F | .150 μ F | .220 μ F |
| | 25 VDC | | | .015 μ F | .022 μ F | .068 μ F | .100 μ F |
| | 50 VDC | 330 pF | 470 pF | 6800 pF | .010 μ F | .010 μ F | .047 μ F |
| | 100 VDC | 10 pF | 220 pF | 220 pF | 4700 pF | | |

Available capacitance values include the following significant R12 retma values and their multiples:

1.0 1.2 1.5 1.8 2.2 2.7 3.3 3.9 4.7 5.6 6.8 8.2 (1.0 = 1.0, 10, 100, 1000, etc.)

Please contact the factory for size/voltage/value combinations not shown.

HOW TO ORDER - CAPACITOR ARRAYS



P/N written: 160A11N100JV4E

CAPACITOR ARRAYS

| Mechanical Dimensions: Size A11 | | |
|---------------------------------|-------------|-------------|
| | In | (mm) |
| L | .040 ± .005 | (1.02±.13) |
| W | .055 ± .005 | (1.40±.13) |
| T | .030 max. | (0.76 max.) |
| Bw | .015 ± .004 | (0.38±0.10) |
| Bl | .010 ± .004 | (0.25±0.10) |
| P | .026 ± .005 | (0.66±0.13) |
| C | .013 ± .004 | (0.33±0.10) |

| Mechanical Dimensions: Size A18 | | |
|---------------------------------|--------------|-------------|
| | In | (mm) |
| L | .126±.008 | (3.20±.02) |
| W | .063±.008 | (1.60±.02) |
| T | .059 max. | (1.50 max.) |
| B | .016±.004 | (0.41±0.1) |
| Bo | .008 Typical | (0.20 TYP) |
| Bs | .030 Typical | (0.76 TYP) |
| Bc | .045±.004 | (1.14±0.1) |

| Solder Pad Dimensions: Size A11 | | | | | |
|---------------------------------|--------|--------|--------|--------|--------|
| | a | b | c | d | e |
| Inches | .020 | .030 | .060 | .013 | .026 |
| (mm) | (0.51) | (0.76) | (1.52) | (0.33) | (0.66) |

| Solder Pad Dimensions: Size A18 | | | | | |
|---------------------------------|--------|--------|--------|--------|--------|
| | a | b | c | d | e |
| Inches | .035 | .065 | .100 | .018 | .030 |
| (mm) | (0.89) | (1.65) | (2.54) | (0.46) | (0.79) |

Dielectric specifications are listed on page 20.

