

# 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

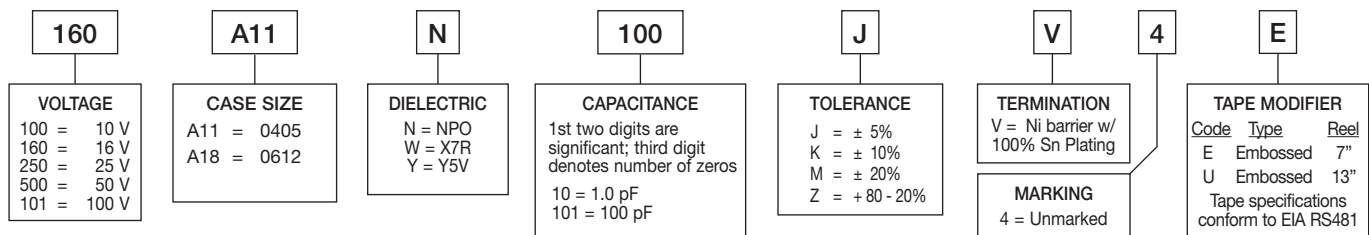
| CHIP SIZE  | RATED VOLTAGE | NPO DIELECTRIC |        | X7R DIELECTRIC |              | Y5V DIELECTRIC |              |
|------------|---------------|----------------|--------|----------------|--------------|----------------|--------------|
|            |               | min.           | MAX.   | min.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



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| 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.

