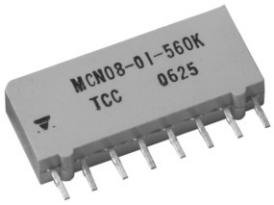
# Capacitor Networks, Molded SIP




## FEATURES

- Custom schematics available
- NP0 or X7R capacitors for line terminator
- Wide operating temperature range (- 55 °C to 125 °C)
- Molded epoxy case
- Solder coated copper terminals
- Solderability per MIL-STD-202 method 208E
- Marking resistance to solvents per MIL-STD-202 method 215

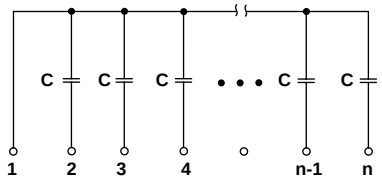
## STANDARD ELECTRICAL SPECIFICATIONS

| MODEL | SCHEMATIC | CAPACITANCE RANGE | | CAPACITANCE TOLERANCE (2) | CAPACITANCE VOLTAGE |
|---|---|---|---|---|---|
| | | NP0 (1) | X7R | ± % | VDC |
| MCN | 01 | 33 pF - 3900 pF | 470 pF - 0.1 µF | ± 10 %, ± 20 % | 50 |
| | 02 | 33 pF - 3900 pF | 470 pF - 0.1 µF | ± 10 %, ± 20 % | 50 |
| | 09 | 33 pF - 3900 pF | 470 pF - 0.1 µF | ± 10 %, ± 20 % | 50 |

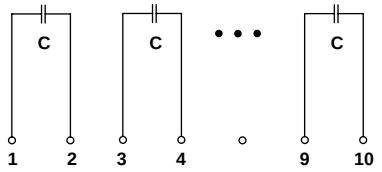
**Notes**
(1) NP0 capacitors may be substituted for X7R capacitors
(2) Tighter tolerances available on request

## SCHEMATICS

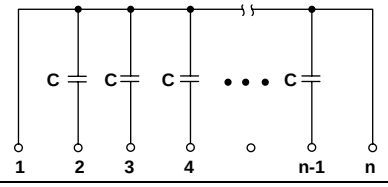
**SCHEMATIC 01**




**SCHEMATIC 02**

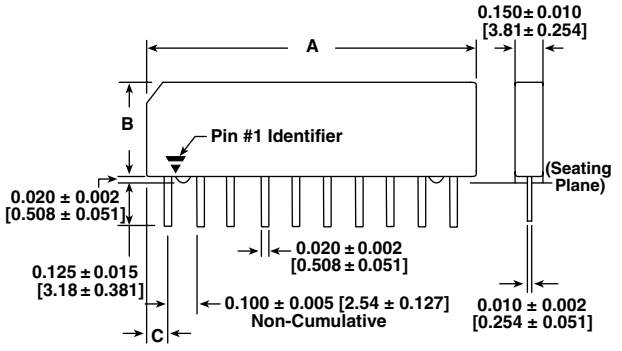



**SCHEMATIC 09**




**Note**
- Custom schematics available

## DIMENSIONS in inches [millimeters]




| NUMBER OF PINS | A ± 0.010 [0.254] | B ± 0.010 [0.254] | C ± 0.010 [0.254] |
|---|---|---|---|
| 5 | 0.620 [15.75] | 0.305 [7.75] | 0.110 [2.79] |
| 8 | 0.780 [19.81] | 0.325 [8.26] | 0.040 [1.02] |
| 9 | 0.940 [23.88] | 0.246 [6.25] | 0.075 [1.91] |
| 10 | 1.040 [26.42] | 0.346 [8.79] | 0.075 [1.91] |

## GLOBAL PART NUMBER INFORMATION

**New Global Part Numbering: MCN0801N101KTB (preferred part number format)**

| M | C | N | 0 | 8 | 0 | 1 | N | 1 | 0 | 1 | K | T | B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| GLOBAL MODEL | PIN COUNT | SCHEMATIC | CHARACTERISTICS | CAPACITANCE VALUE | TOLERANCE | TERMINAL FINISH | PACKAGING |
|---|---|---|---|---|---|---|---|
| **MCN** | **05** = 5 pin<br>**08** = 8 pin<br>**09** = 9 pin<br>**10** = 10 pin | **01**<br>**02**<br>**09** | **N** = NP0<br>**X** = X7R | (in picofarads)<br>2 digit significant figure, followed by a multiplier<br>**101** = 100 pF<br>**392** = 3000 pF<br>**104** = 0.1 µF | **K** = 10 %<br>**M** = 20 % | **T** = Sn90/Pb10 | **B** = Bulk |

**Historical Part Numbering: MCN0801101KS10 (will continue to be accepted)**

| MCN | 08 | 01 | 101 | K | S10 |
|---|---|---|---|---|---|
| HISTORICAL MODEL | PIN COUNT | SCHEMATIC | CAPACITANCE VALUE | TOLERANCE | TERMINAL FINISH |

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