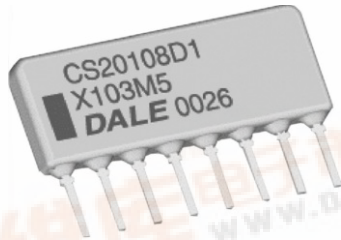


CS201

Vishay Dale



Capacitor Networks, Single-In-Line, Conformal Coated SIP, "D" Profile



FEATURES

- X7R and COG capacitors available
- Multiple isolated capacitors
- Multiple capacitors, common ground
- Custom design capability
- "D" 0.300" [7.62 mm] package height (maximum)



STANDARD ELECTRICAL SPECIFICATIONS

| VISHAY DALE MODEL | PROFILE | SCHEMATIC | CAPACITANCE RANGE | | CAPACITANCE TOLERANCE (- 55 °C to + 125 °C) % | CAPACITOR VOLTAGE at 85 °C VDC |
|-------------------------|---------|-----------|----------------------|-----------------|--|---|
| | | | COG ⁽¹⁾ | X7R | | |
| CS201 | D | 1 | 33 pF - 3900 pF | 470 pF - 0.1 µF | ± 10 (K), ± 20 (M) | 50 (5) |
| CS201 | D | 3 | 33 pF - 3900 pF | 470 pF - 0.1 µF | ± 10 (K), ± 20 (M) | 50 (5) |
| CS201 | D | 4 | 33 pF - 3900 pF | 470 pF - 0.1 µF | ± 10 (K), ± 20 (M) | 50 (5) |

Note

(1) COG capacitors may be substituted for X7R capacitors

TECHNICAL SPECIFICATIONS

| PARAMETER | UNIT | CS201 | |
|---|-------------------|----------------|--------|
| | | COG | X7R |
| Temperature Coefficient (- 55 °C to +125 °C) | ppm/°C or % | ± 30 ppm/°C | ± 15 % |
| Dissipation Factor (Maximum) | ± % | 0.15 | 2.5 |

MECHANICAL SPECIFICATIONS

| | |
|-----------------------------------|--|
| Marking Resistance to Solvents | Permanency testing per MIL-STD-202, Method 215 |
| Solderability | Per MIL-STD-202, Method 208E |
| Body | High alumina, epoxy coated (Flammability UL94 V-0) |
| Terminals | Phosphorus-bronze, solder plated |
| Marking | Pin #1 identifier, DALE or D, Part number (abbreviated as space allows), Date code |

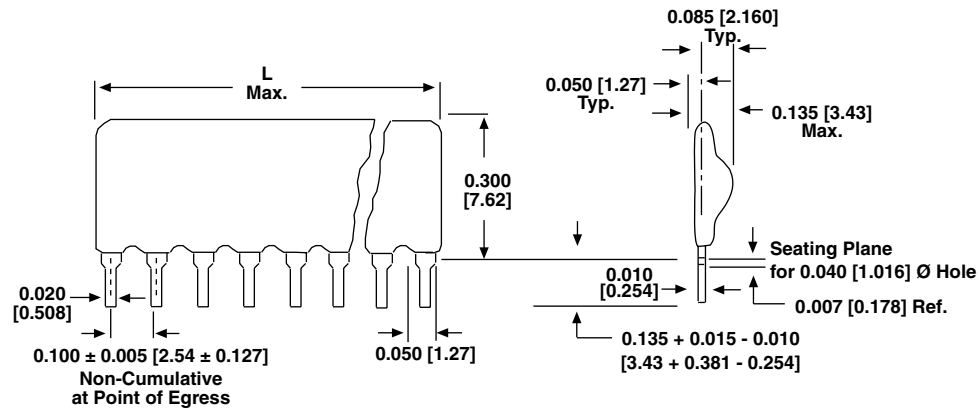
GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: 20108D1C103K5P (preferred part numbering format)

| | | | | | | | | | | | | | | | | |
|-----------------|---|--------------------|----------------------------|-----------------------------------|---|---|------------------------|---|--|---|---|---|---|--|--|--|
| 2 | 0 | 1 | 0 | 8 | D | 1 | C | 1 | 0 | 3 | K | 5 | P | | | |
| GLOBAL MODEL | PIN COUNT | PACKAGE HEIGHT | SCHEMATIC | CHARACTERISTIC | CAPACITANCE VALUE | TOLERANCE | VOLTAGE | PACKAGING | SPECIAL | | | | | | | |
| 201 = CS201 | 04 = 4 Pin 08 = 8 Pin 18 = 18 Pin | D = "D" Profile | 1 3 4 0 = Special | C = COG X = X7R S = Special | (in picofarads) 2 digit significant figure, followed by a multiplier 330 = 33 pF 392 = 3900 pF 104 = 0.1 µF | K = ± 10 % M = ± 20 % S = Special | 5 = 50V S = Special | E = Lead (Pb)-free, Bulk P = Tin/Lead, Bulk | Blank = Standard (Dash Number) (up to 3 digits) From 1-999 as applicable | | | | | | | |

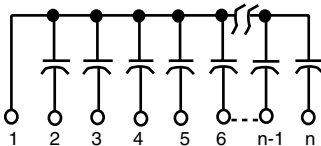
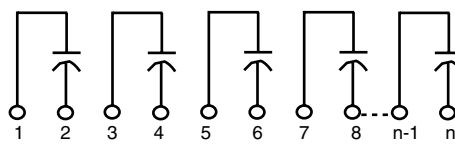
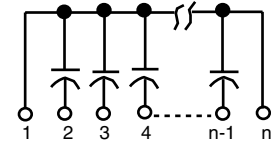
Historical Part Number example: CS20108D1C103K5 (will continue to be accepted)

| | | | | | | | | |
|---------------------|-----------|-------------------|-----------|----------------|-------------------|-----------|---------|-----------|
| CS201 | 08 | D | 1 | C | 103 | K | 5 | P03 |
| HISTORICAL MODEL | PIN COUNT | PACKAGE HEIGHT | SCHEMATIC | CHARACTERISTIC | CAPACITANCE VALUE | TOLERANCE | VOLTAGE | PACKAGING |

**DIMENSIONS** in inches [millimeters]

Pin #1 is extreme left-hand terminal on side with marking.

| NUMBER OF PINS | L MAXIMUM | NUMBER OF PINS | L MAXIMUM | NUMBER OF PINS | L MAXIMUM |
|----------------|---------------|----------------|---------------|----------------|---------------|
| 4 pin | 0.400 [10.16] | 9 pin | 0.900 [22.86] | 14 pin | 1.400 [35.56] |
| 5 pin | 0.500 [12.70] | 10 pin | 1.000 [25.40] | 15 pin | 1.500 [38.10] |
| 6 pin | 0.600 [15.24] | 11 pin | 1.100 [27.94] | 16 pin | 1.600 [40.64] |
| 7 pin | 0.700 [17.78] | 12 pin | 1.200 [30.48] | 17 pin | 1.700 [43.18] |
| 8 pin | 0.800 [20.32] | 13 pin | 1.300 [33.02] | 18 pin | 1.800 [45.72] |

SCHEMATICS**Schematic 1****Common Bus - 1 Ground Lead****Schematic 3****Isolated Capacitor Sections****Schematic 4****Common Bus - 2 Ground Leads**



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