

CS201

RoHS

Vishay Dale

# Thick Film Capacitor Networks, Single-In-Line, **Conformal Coated SIP**



## **FEATURES**

- · Isolated and bussed schematics available
- X7R and C0G capacitors available
- Multiple isolated capacitors
- Multiple capacitors, common ground
- Custom design capability
- "D" 0.300" (7.62 mm) package height (maximum)



### Note

This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

STANDARD ELECTRICAL SPECIFICATIONS									
VISHAY DALE MODEL	PROFILE	SCHEMATIC		ITANCE NGE		CAPACITANCE VOLTAGE at 85 °C V <sub>DC</sub>			
			C0G <sup>(1)</sup>	X7R	(-55 °C to +125 °C) ± %				
CS201	D	1	33 pF to 3900 pF	470 pF to 0.1 μF	10, 20	50			
CS201	D	3	33 pF to 3900 pF	470 pF to 0.1 μF	10, 20	50			
CS201	D	4	33 pF to 3900 pF	470 pF to 0.1 μF	10, 20	50			

#### Note

<sup>(1)</sup> C0G capacitors may be substituted for X7R capacitors

TECHNICAL SPECIFICATIONS							
PARAMETER	UNIT CS201		201				
PANAIWIETEN	UNIT	COG	X7R				
Temperature coefficient (-55 °C to +125 °C)	ppm/°C or %	± 30 ppm/°C	± 15 %				
Dissipation factor (maximum)	± %	0.15	2.5				

MATERIAL 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 UL 94 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)											
GLOBAL MODEL	PIN COUNT	PACKAGE HEIGHT	SCHEMATIC	CHARA	ACTERISTIC	CAPACITANCE VALUE	TOLERANCE	VOLTAGE	Ρ	ACKAGING	SPECIAL
<b>201</b> = CS201	04 to 18 pin available 04 = 4 pin 08 = 8 pin 18 = 18 pin	D = "D" profile	1 3 4 0 = special	X	= C0G = X7R special	$\begin{array}{l} (\text{in picofarads})2\\ \text{digit significant}\\ \text{figure, followed}\\ \text{by a multiplier}\\ \textbf{330}=33\ \text{pF}\\ \textbf{392}=3900\ \text{pF}\\ \textbf{104}=0.1\ \mu\text{F} \end{array}$	$K = \pm 10 \%$ $M = \pm 20 \%$ S = special	<b>5</b> = 50 V <b>S</b> = special		lead (Pb)-free, bulk tin / lead, bulk	Blank = standard (dash number) (up to 3 digits) From <b>1 to 999</b> as applicable
Historical Part Number example: CS20108D1C103K5 (will continue to be accepted)											
CS201	08	D	1		C	;	103	К		5	P03
HISTORICA MODEL	L PIN COUNT	PACKA HEIGH	SCHEM	IATIC	CHARACT	CAI	PACITANCE VALUE	TOLERAN	CE	VOLTAGE	PACKAGING
Note											

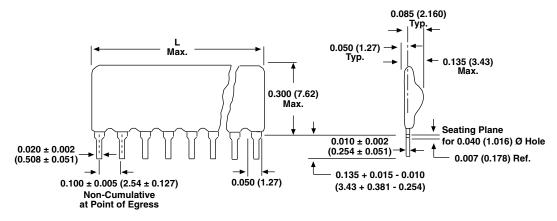
For additional information on packaging, refer to the Through-hole Network Packaging document (www.vishay.com/doc?31542)

Revision: 24-Jan-2019



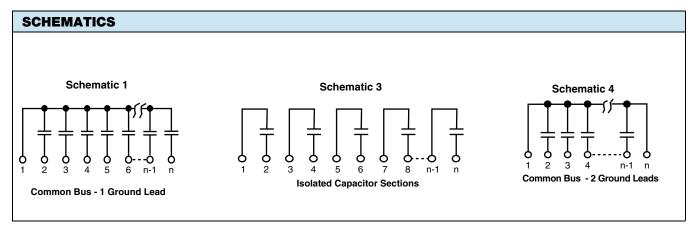
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### **DIMENSIONS** in inches (millimeters)



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)



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