

CS201

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				
			C0G <sup>(1)</sup>	X7R	(-55 °C to +125 °C) ± %	at 85 °C V <sub>DC</sub>		
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	CS	CS201				
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	CHAR	ACTERISTIC	CAPACITANCE VALUE	TOLERANCE	VOLTAGE	PACKAGING	SPECIAL
<b>201</b> = CS201	04 to 18 pin available 04 = 4 pin 08 = 8 pin 18 = 18 pin	<b>D</b> = "D" profile	1 3 4 0 = special	X	= C0G = X7R special	$      (in picofarads) 2 \\            digit significant \\            figure, followed \\            by a multiplier \\            330 = 33 pF \\            392 = 3900 pF \\            104 = 0.1  \mu F $	$K = \pm 10 \%$ $M = \pm 20 \%$ S = special	<b>5</b> = 50 V <b>S</b> = special	E = lead (Pb)-free, bulk P = tin / lead, bulk	Blank = standard (dash number) (up to 3 digits) From <b>1 to 999</b> as applicable
Historical F	Historical Part Number example: CS20108D1C103K5 (will continue to be accepted)									
CS201	08	D	1		C	;	103	к	5	P03
HISTORICA	L PIN COUNT	PACKA HEIGH	SCHEM	IATIC	CHARACT	CAI	PACITANCE VALUE	TOLERAN	CE VOLTAGE	PACKAGING

#### Note

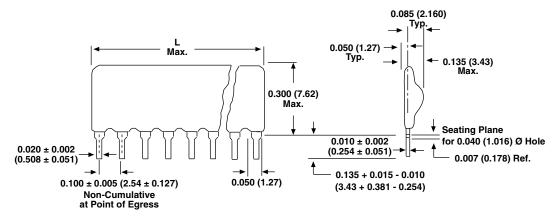
For additional information on packaging, refer to the Through-hole Network Packaging document (www.vishay.com/doc?31542)

Revision: 24-Jan-2019



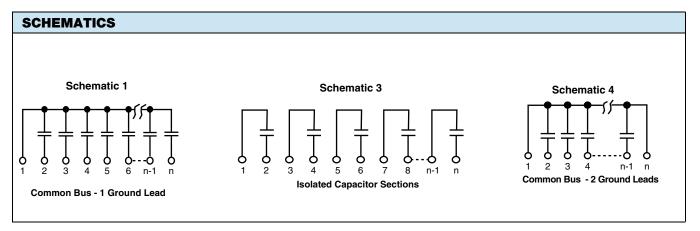
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### **DIMENSIONS** in inches (millimeters)



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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