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# 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)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912





BoHS\*

HALOGEN FREE

## 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

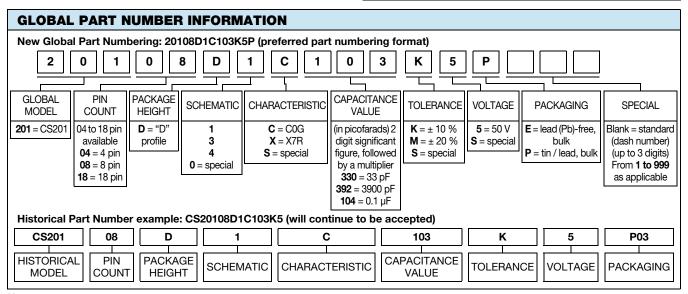
STANDARD ELECTRICAL SPECIFICATIONS								
VISHAY DALE	PROFILE	SCHEMATIC	CAPACITANCE RANGE		CAPACITANCE TOLERANCE	CAPACITANCE VOLTAGE		
MODEL			C0G (1)	X7R	(-55 °C to +125 °C) ± %	at 85 °C V <sub>DC</sub>		
CS201	D	1	33 pF to 3900 pF	470 pF to 0.1 μF	10, 20	50		
CS201	D	3	33 pF to 3900 pF	470 pF to 0.1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

#### Note

(1) C0G capacitors may be substituted for X7R capacitors

TECHNICAL SPECIFICATIONS							
PARAMETER	UNIT	CS201					
PARAMETER	UNIT	C0G	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				

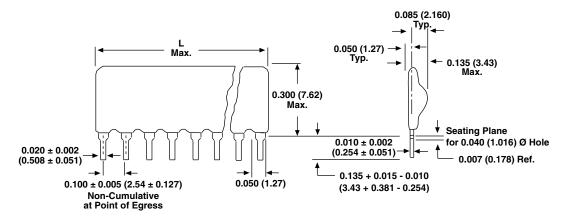


#### Note

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

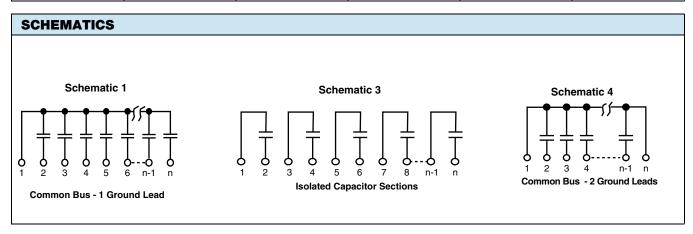


### **DIMENSIONS** in inches (millimeters)



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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