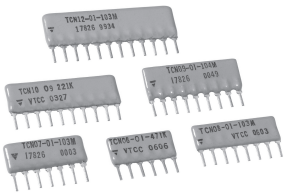
Thick Film Capacitor Networks, Single-In-Line, Conformal Coated SIP



FEATURES

- Isolated and bussed schematics available
- NP0 or X7R capacitors for line terminator
- Wide operating temperature range (- 55 °C to 125 °C)
- Epoxy based conformal coating
- Solder coated copper terminals
- Solderability per MIL-STD-202 method 208E
- Marking resistance to solvents per MIL-STD-202 method 215
- Compliant to RoHS directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition

Pb Available

e1 RoHS* COMPLIANT

HALOGEN FREE

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	SCHEMATIC	CAPACITANCE RANGE		CAPACITANCE TOLERANCE (2) ± %	CAPACITANCE VOLTAGE V_{DC}
		NP0 (1)	X7R		
TCN	01	33 pF to 3900 pF	470 pF to 0.1 µF	10, 20	50
	02	33 pF to 3900 pF	470 pF to 0.1 µF	10, 20	50
	09	33 pF to 3900 pF	470 pF to 0.1 µF	10, 20	50

Notes

(1) NP0 capacitors may be substituted for X7R capacitors

(2) Tighter tolerances available on request

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: TCN0801N101KTB (preferred part number format)

T	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
TCN	06 to 12 pin available **06** = 6 pin **08** = 8 pin **12** = 12 pin	**01** **02** **09**	**N** = NP0 **X** = X7R	(In picofarads) 2 digit significant figure, followed by a multiplier **101** = 100 pF **392** = 3000 pF **104** = 0.1 µF	**K** = 10 % **M** = 20 %	**T** = Sn90/Pb10 **C** = Sn95.5/Ag3.9/Cu0.6	**B** = Bulk

Historical Part Numbering: TCN0801101KS10 (will continue to be accepted)

TCN	08	01	101	K	S10
HISTORICAL MODEL	PIN COUNT	SCHEMATIC	CAPACITANCE VALUE	TOLERANCE	TERMINAL FINISH

* Pb containing terminations are not RoHS compliant, exemptions may apply

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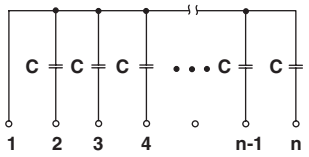
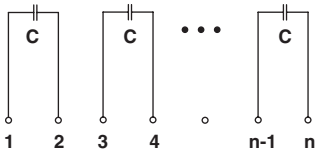
SCHEMATICS

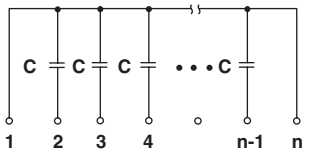
SCHEMATIC 01



SCHEMATIC 02

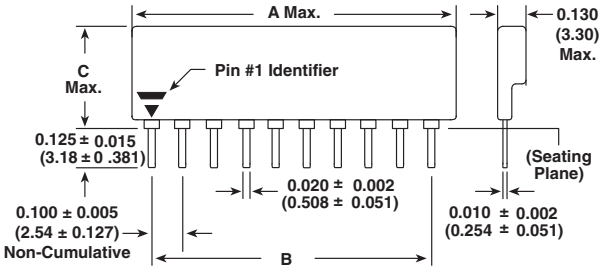


SCHEMATIC 03



Note
• Custom schematics available

DIMENSIONS in inches (millimeters)



NUMBER OF PINS	A (Max.)	B ± 0.005 (0.127)	C (Max.)
6	0.590 (14.99)	0.500 (12.70)	0.350 (8.89)
7	0.690 (17.53)	0.600 (15.24)	0.350 (8.89)
8	0.790 (20.07)	0.700 (17.78)	0.350 (8.89)
9	0.890 (22.61)	0.800 (20.32)	0.350 (8.89)
10	0.990 (25.15)	0.900 (22.86)	0.350 (8.89)
11	1.09 (27.69)	1.00 (25.40)	0.350 (8.89)
12	1.19 (30.23)	1.10 (27.94)	0.350 (8.89)

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