

Thick Film Resistor/Capacitor Networks, Single-In-Line, Molded SIP



FEATURES

- Isolated and ECL terminator schematics available
- Custom schematics available
- NP0 or X7R capacitors for line terminator
- Wide operating temperature range (- 55 °C to 125 °C)
- Molded epoxy case
- 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


RoHS*
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	SCHEMATIC	RESISTOR CHARACTERISTICS				CAPACITOR CHARACTERISTICS			
		POWER RATING $P_{70} \text{ } ^\circ\text{C W}$	RESISTANCE RANGE Ω	RESISTANCE TOLERANCE ⁽¹⁾ $\pm \%$	TEMP. COEFF. COEFF. $\pm \text{ppm}/^\circ\text{C}$	TYPE ⁽²⁾	CAPACITANCE RANGE	CAPACITANCE TOLERANCE ⁽³⁾ $\pm \%$	CAPACITANCE VOLTAGE V_{DC}
MRCN	10	0.20	50 to 1K	1, 2, 5	150	NP0	33 pF to 3900 pF	10, 20	50
						X7R	470 pF to 0.1 μF	10, 20	
	20	0.20	50 to 1K	1, 2, 5	150	NP0	33 pF to 3900 pF	10, 20	50
						X7R	470 pF to 0.1 μF	10, 20	
	30	0.20	50 to 1K	1, 2, 5	150	NP0	33 pF to 3900 pF	10, 20	50
						X7R	470 pF to 0.1 μF	10, 20	

Notes

- ⁽¹⁾ 2 % standard, $\pm 1 \%$ and 5 % available
⁽²⁾ NP0 Capacitors may be substituted for X7R capacitors
⁽³⁾ Tighter tolerances available on request

GLOBAL PART NUMBER INFORMATION

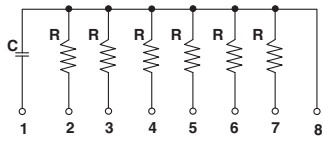
New Global Part Numbering: MRCN081N101J560KT B (preferred part number format)

M	R	C	N	0	8	1	N	1	0	1	J	5	6	0	K	T	B
GLOBAL MODEL	PIN COUNT	SCHEMATIC	CHARACTERISTIC	RESISTANCE VALUE	RESISTANCE TOLERANCE	CAPACITANCE VALUE	CAPACITANCE TOLERANCE	TERMINAL FINISH	PACKAGING								
MRCN	08 = 8 pin 10 = 10 pin	1 = 10 2 = 20 3 = 30	N = NP0 X = X7R	2 digit significant figure, followed by a multiplier 101 = 100 Ω 220 = 22 Ω 102 = 1 k Ω	F = 1 % G = 2 % J = 5 %	(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 W = Tray								
Historical Part Numbering: MRCN0801101J560KS10 (will continue to be accepted)																	
MRCN	08	01	101	J	560	K	S10										
HISTORICAL MODEL	PIN COUNT	SCHEMATIC	RESISTANCE VALUE	RESISTANCE TOLERANCE	CAPACITANCE VALUE	CAPACITANCE TOLERANCE	TERMINAL FINISH										

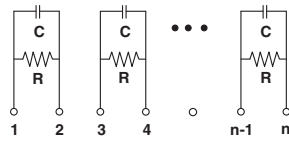
* Pb containing terminations are not RoHS compliant, exemptions may apply

SCHEMATICS

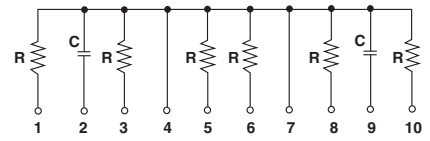
SCHEMATIC 10
10K ECL TERMINATOR NETWORK



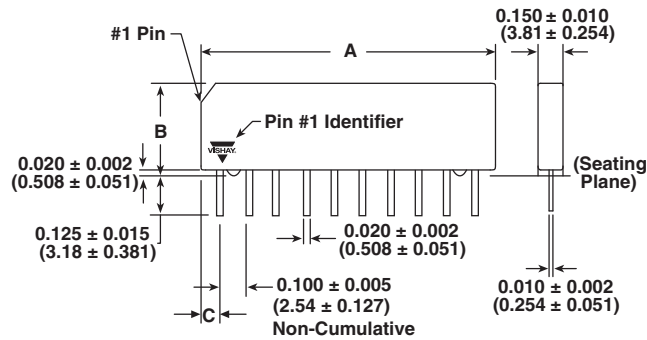
SCHEMATIC 20



SCHEMATIC 30
100K ECL TERMINATOR NETWORK



DIMENSIONS in inches (millimeters)



NUMBER OF PINS	A ± 0.010 (0.254)	B ± 0.010 (0.254)	C ± 0.010 (0.254)
8	0.780 (19.81)	0.345 (8.76)	0.040 (1.02)
10	1.040 (26.42)	0.316 (8.03)	0.075 (1.91)

Note

- Custom schematics available



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