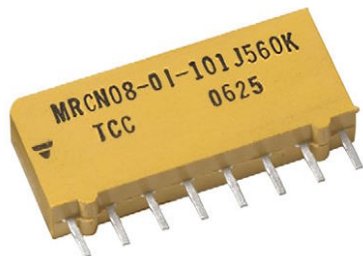




Thick Film Resistor/Capacitor Networks, Single-In-Line, Molded SIP



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



RoHS*
Available

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

GLOBAL MODEL	SCHEMATIC	RESISTOR CHARACTERISTICS				CAPACITOR CHARACTERISTICS			
		POWER RATING $P_{70^{\circ}\text{C}}$ W	RESISTANCE RANGE Ω	RESISTANCE TOLERANCE ⁽¹⁾ $\pm \%$	TEMP. COEFF. $\pm \text{ppm}/^{\circ}\text{C}$	TYPE ⁽²⁾	CAPACITANCE RANGE	CAPACITANCE TOLERANCE ⁽³⁾ $\pm \%$	CAPACITANCE VOLTAGE V_{DC}
MRCN	10	0.20	10 to 1M	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	10 to 1M	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	10 to 1M	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

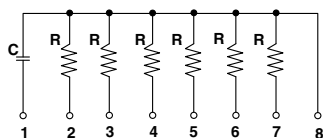
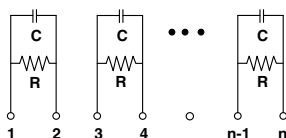
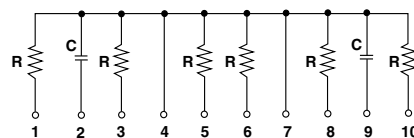
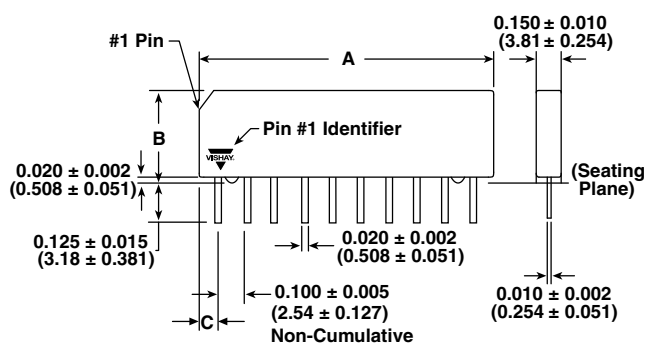
GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: MRCN081N101J560KTB (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	CHAR.	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 kΩ	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

**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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