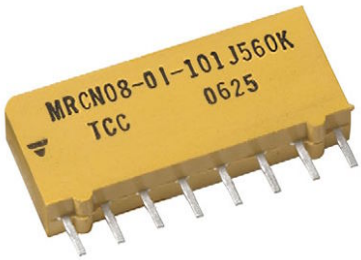
Thick Film Resistor/Capacitor Networks, Single-In-Line, Molded SIP



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

Pb Available

e1 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 $P_{70\,°C}$ W	RESISTANCE RANGE Ω	RESISTANCE TOLERANCE (1) ± %	TEMP. COEFF. ± ppm/°C	TYPE (2)	CAPACITANCE RANGE	CAPACITANCE TOLERANCE (3) ± %	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, ± 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

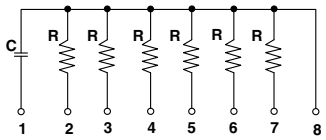
GLOBAL MODEL	PIN COUNT	SCHEMATIC	CHAR.	RESISTANCE VALUE	RESISTANCE TOLERANCE	CAPACITANCE VALUE	CAPACITANCE TOLERANCE	TERMINAL FINISH	PACKAGING
MRCN	**08** = 8 pin **10** = 10 pin	**1** = 10 **2** = 20 **3** = 30	**N** = NP0 **X** = X7R	2 digit significant figure, followed by a multiplier **101** = 100 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)

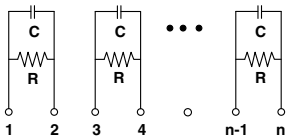
MRCN	08	01	101	J	560	K	S10
HISTORICAL MODEL	PIN COUNT	SCHEMATIC	RESISTANCE VALUE	RESISTANCE TOLERANCE	CAPACITANCE VALUE	CAPACITANCE TOLERANCE	TERMINAL FINISH

SCHEMATICS

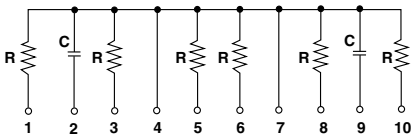
SCHEMATIC 10
10K ECL TERMINATOR NETWORK



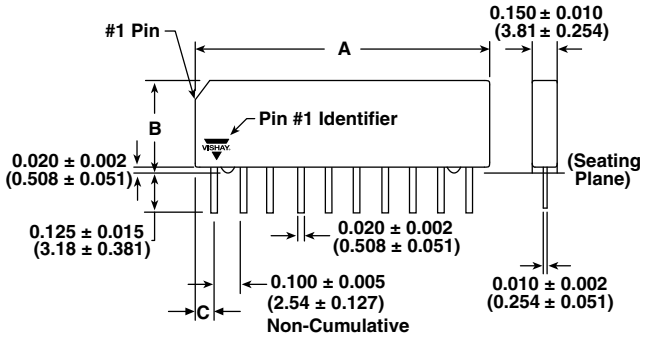
SCHEMATIC 20



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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