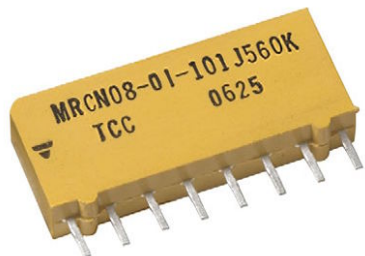




Thick Film Resistor/Capacitor Networks, Single-In-Line, Molded SIP



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

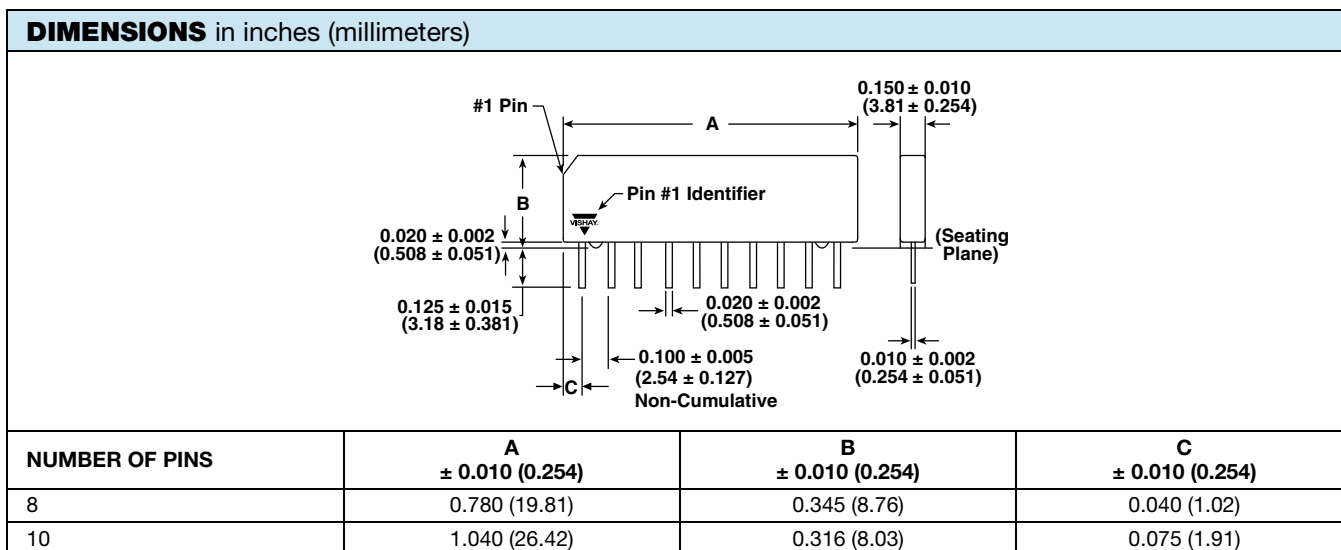
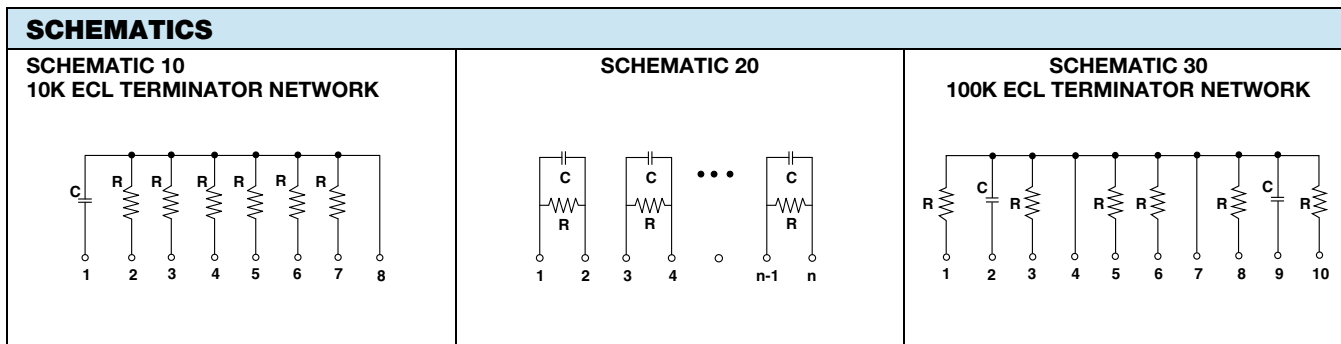
* This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

STANDARD ELECTRICAL SPECIFICATIONS									
GLOBAL MODEL	SCHEMATIC	RESISTOR CHARACTERISTICS				CAPACITOR CHARACTERISTICS			
		POWER RATING <i>P</i> _{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										



Note

- Custom schematics available



Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Vishay products are not designed for use in life-saving or life-sustaining applications or any application in which the failure of the Vishay product could result in personal injury or death unless specifically qualified in writing by Vishay. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.