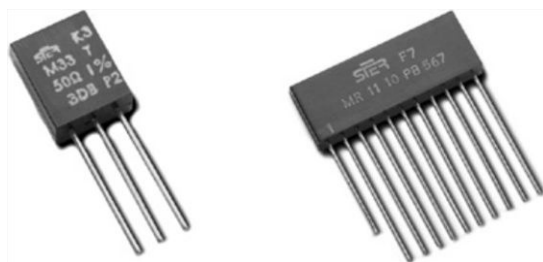


# Resistor Networks Metal Film Technology



## FEATURES

- RCMA 02 metal film
- RCMX 02 metal film
- Temperature range - 55 °C to + 125 °C
- Tolerance and/or temperature coefficient  
Tolerance tracking 0.1 % between two resistors  
TCR tracking 2 ppm/°C between two resistors
- Material categorization: For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**RoHS**  
COMPLIANT

Please consult Vishay Sfernice for special requirements.

## DIMENSIONS in millimeters (inches)

<p>Lead spacing: 2.54 OR 5.08 (0.100) OR (0.200)</p>	SERIES	MR3..	MR4..	MR5..	MR7..	MR11..
	S = 2.54 (0.100)	8.6	11.5	13.6	19.7	28.8
	A = 5.08 (0.200) <sup>(1)</sup>	13.6	19.7	On request		

### Note

<sup>(1)</sup> On request

## STANDARD ELECTRICAL SPECIFICATIONS

MODEL	RESISTANCE RANGE Ω	POWER RATING $P_{70^{\circ}\text{C}}$ W	ABSOLUTE TOLERANCE ± %	RATIO TOLERANCE ± %	ABSOLUTE TCR ± ppm/°C	RATIO TCR ± ppm/°C
MR	0.1 to 10M	0.1	0.1 to 5	0.1, 0.05, 0.02, 0.01	5 to 50	1, 2

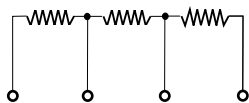
## ELECTRICAL SPECIFICATIONS (PER RESISTOR)

Maximum Power Rating Per Packaging	Number of resistors x 0.1 W
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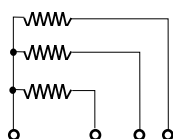
## AVAILABLE CONFIGURATIONS

### RESISTOR NETWORKS

#### S SERIES

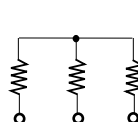


#### PARALLEL + COMMON



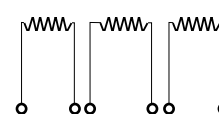
#### P

#### PARALLEL



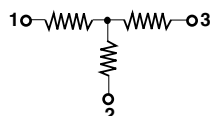
#### E

#### INDEPENDENT

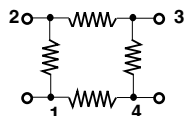


### ATTENUATORS

#### T

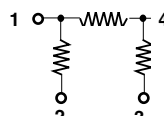


#### U



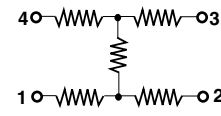
#### O

#### (BALANCED PI)



#### H

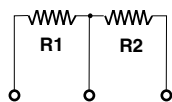
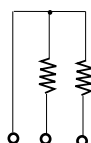
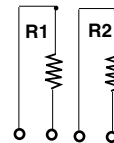
#### (BALANCED T)



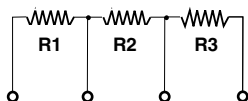
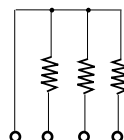
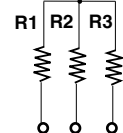
## PACKAGED CONFIGURATIONS

Standard models - consult Vishay Sfernice for special configuration requirements

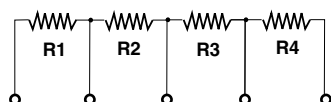
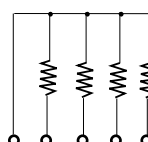
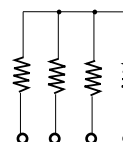
### 2 RESISTOR NETWORKS

**MR32S**

**MR32P**

**MR42E**


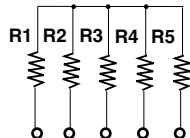
### 3 RESISTOR NETWORKS

**MR43S or U**

**MR43P**

**MR33P or T**


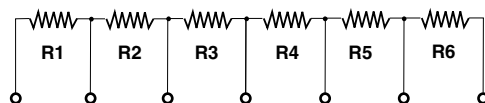
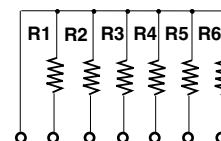
### 4 RESISTOR NETWORKS

**MR54S**

**MR54P**

**MR44P**


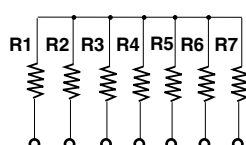
### 5 RESISTOR NETWORKS

**MR55P**


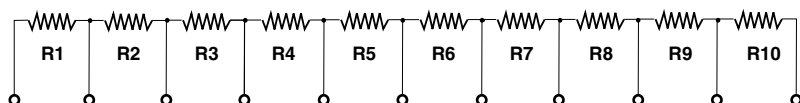
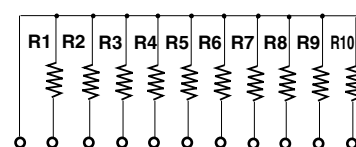
### 6 RESISTOR NETWORKS

**MR76S**

**MR76P**


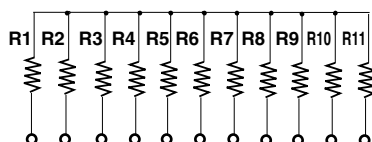
### 7 RESISTOR NETWORKS

**MR77P**


### 10 RESISTOR NETWORKS

**MR110S**

**MR110P**


### 11 RESISTOR NETWORKS

**MR111P**


**ORDERING INFORMATION****ATTENUATORS**

<b>MR</b>	<b>3</b>	<b>3</b>	<b>T</b>	<b>S</b>	<b>20B</b>	<b>50U</b>	<b>1 %</b>	<b>K3</b>	<b>e2</b>
	NUMBER OF LEADS	NUMBER OF RESISTORS	CONFIGURATION	LEAD SPACING	ATTENUATION RANGE	IMPEDANCE	TOLERANCE PER RESISTIVE ELEMENT	TEMPERATURE COEFFICIENT	LEAD (Pb)-FREE
				S standard: 2.54 (0.100) A on request: 5.08 (0.200)					

**RESISTORS NETWORKS**

**MRC**      **9**      **8**      **P**      **S**      **50U**      **XXX**      **e2**

MODEL	NUMBER OF LEADS	NUMBER OF RESISTORS	CONFIGURATION	LEAD SPACING	APPLICABLE	SPECIAL REQUEST, TRACKING MATCHING	LEAD (Pb)-FREE
		P = Parallel S = Serie		S standard: 2.54 (0.100) A on request: 5.08 (0.200)	Only when the ohmic value is the same for all resistors		

**SAP PART NUMBERING GUIDELINES****ATTENUATORS**

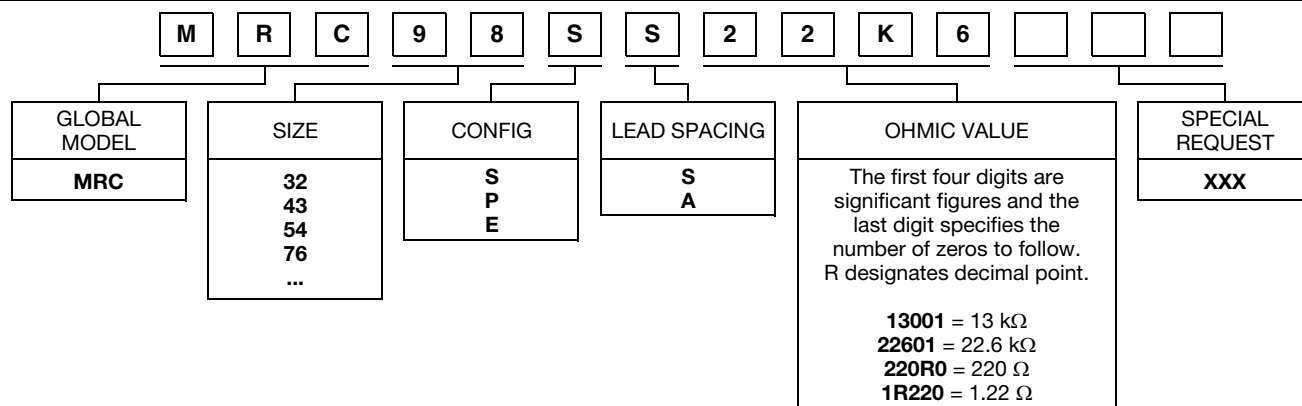
**M**      **33**      **T**      **S**      **500**      **2R0**      **F**      **H**

MODEL	SIZE	CONFIGURATION	LEAD SPACING	IMPEDANCE	ATTENUATORS	TOLERANCE	TEMPERATURE COEFFICIENT
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**RESISTORS NETWORKS**

**MRC**      **98**      **P**      **S**      **500**      **XXX**

MODEL	SIZE	CONFIGURATION	LEAD SPACING	OHMIC VALUE	SPECIAL REQUEST
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**GLOBAL PART NUMBER INFORMATION**



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