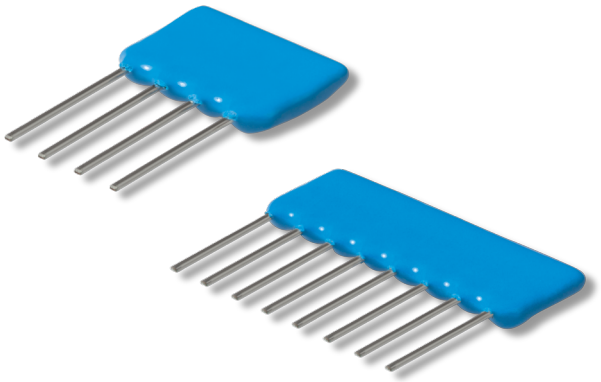
Precision Resistors

Resistor Network — Series MIX



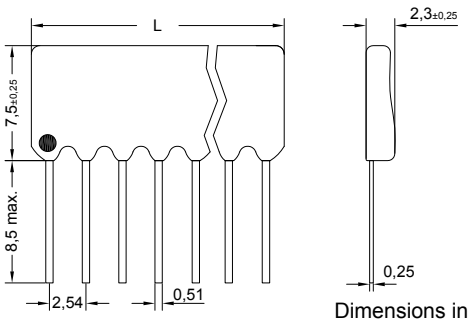
MixNet

- 3 - 16 Pin Single In-Line Network
- Extremely wide resistance range
- Custom-built solutions
- Additional components possible

MixPac

- 4 - 16 Pin SIP isolated resistors
- Space-saving assemblies
- Up to 8 individual resistive elements
- Power dissipation up to 0.25 Watts (max.)

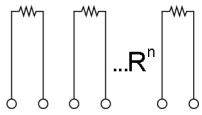
Mechanical Data	
Material	NiCr/ RuO_2
Substrate Material	Alumina
Body	Epoxy - coated
Terminals	Copper
Plating	Tin
Storage Temperature Range	-20°C to +125°C



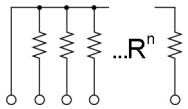
Dimensions in mm

Number of Pins	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Length L in mm (±0,5)	7,6	10,2	12,7	15,0	17,7	20,3	22,8	25,4	27,9	30,4	33,0	35,5	38,1	40,6

Standard Circuits

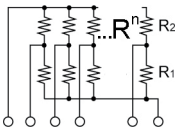


MonoPAC, 2 to 8 Elements

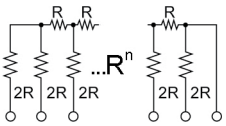


Parallel, 2 to 15 Elements

Serial, 2 to 15 Elements



Voltage Divider



R/2R Network

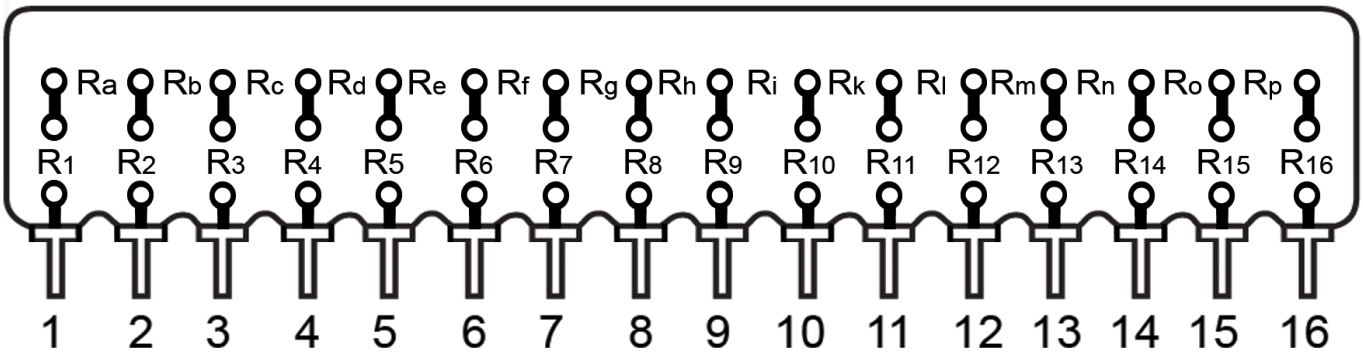
Specification		
Standard Resistance Range		1Ω - 500MOhm
Temperature Coefficient	Tracking	from 5ppm (depends on values)
Temperature Coefficient	Absolute	down to ±5ppm to 250ppm
Resistance Tolerance	Ratio	down to 0,1% (depends on values)
Resistance Tolerance	Absolute	±0,1% to 30%
Operating Voltage (max.)		100V
Power Dissipation (max.)		0,25 Watts per element
Operating Temperature Range		0 - 70°C
Insulation Resistance		10.000 MOhm

MEGATRON MixNet und MixPac allows the engineer to design a network with a wider range of values instead of limiting them between 100Ω-100kΩ without compromising on the precision. Thus a MixNet or MixPac is created by adding a few chip resistors which are beyond the range of 100Ω-100kΩ to the monolithic networks. It is advisable to restrict these to a small number so that the network is economical. If you need to use more of these resistors then we offer you our ChipNets. The engineer has the flexibility to also add any other components like chip fuse, diode, coils, capacitor to the MixNet network.

Please use for your inquiries and application our form or ask our well trained technical staff!

Precision Resistors

Resistor Network **Series MIX**

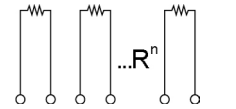


Configuration

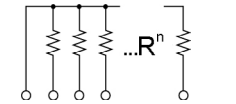
- Choice of the typical circuit
- Definition of the number of necessary connections
- Predefinition of the tolerance, absolutely and matching tolerance („-Pac“ resistor elements can be paired if requested to measured sets for a tolerance and TCR performance)
- Definition of the TCR, absolute and tracking
- Definition of the separate resistance values (with „-PAC“ and „chip“ variants different tolerances and temperature coefficients between single resistors are realizable)

Circuit	Number of Pins	TCR absolute	TCR tracking	Tolerance absolute	Tolerance Ratio

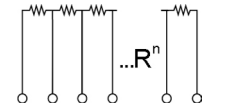
	Function o--o/o o	Value (Ω)	Remark (e.g. 5ppm, 0,01%)
R_1			
R_2			
R_3			
R_4			
R_5			
R_6			
R_7			
R_8			
R_9			
R_{10}			
R_{11}			
R_{12}			
R_{13}			
R_{14}			
R_{15}			
R_{16}			



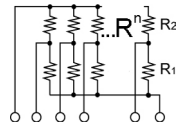
Array, 2 to 8 Elements



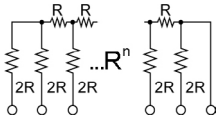
Parallel, 2 to 15 Elements



Serial, 2 to 15 Elements



Divider



R/2R Network

	Function o--o/o o	Value (Ω)	Remark (e.g. 5ppm, 0,01%)
R_a			
R_b			
R_c			
R_d			
R_e			
R_f			
R_g			
R_h			
R_i			
R_k			
R_l			
R_m			
R_n			
R_o			
R_p			

R_1...R_{16}, R_a...R_p = Position
o--o = closed by element or contact
o o = not connected

Example for an array: R_1= o--o; R_a=10kΩ; R_2= o--o; R_b= o o;...
Example Parallel: R_1= o--o; R_a=o--o; R_2= 10kΩ; R_b= o--o;...
Divider: R_1= 1kΩ; R_a=o--o; R_2= o--o; R_b= o--o; R_3= 1kΩ;...

With the receipt of this configuration data sheet we immediately create for you a cost offer about prices, least order amounts or if necessary initial costs as well as delivery times.

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