Precision Resistors
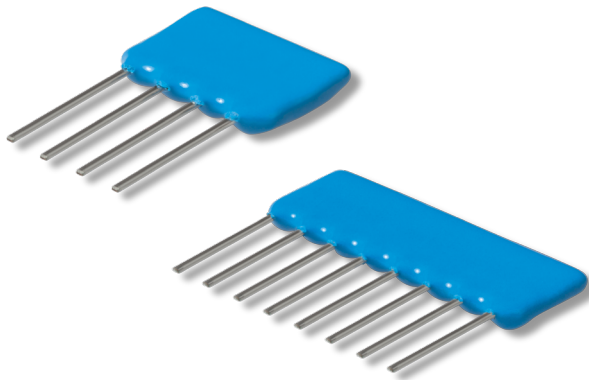
MEGATRON

MonoNet

- 3 - 16 Pin Single In-Line Network
- Cost-efficient standard layouts
- Custom-built solutions
- Up to 15 individual resistive elements
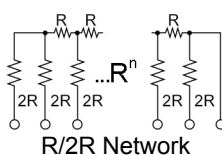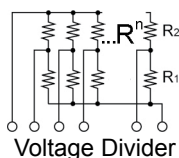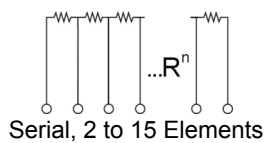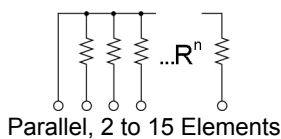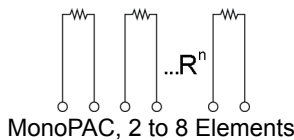- Low-noise, long term stability

MonoPac

- 4 - 16 Pin SIP isolated resistors
- Space-saving assemblies
- Up to 8 individual resistive elements
- Low-noise, long term stability

Mechanical Data

Material	NiCr
Substrate Material	Alumina
Body	Epoxy - coated
Terminals	Copper
Plating	Tin
Storage Temperature Range	-55°C to +125°C

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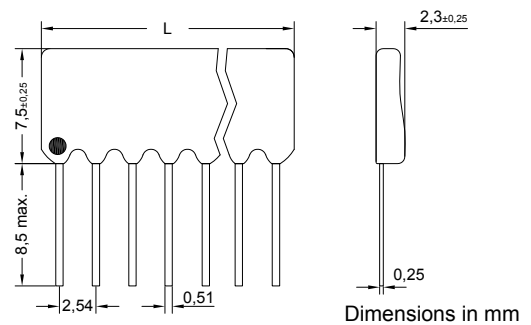
Number of Pins	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Length L in mm (±0,5)	7,6	10,2	12,7	15,0	17,7	20,3	22,8	25,4	27,9	30,4	33,0	35,5	38,1	40,6

Standard Circuits

MonoPAC, 2 to 8 Elements

Parallel, 2 to 15 Elements

Serial, 2 to 15 Elements

Voltage Divider

R/2R Network

Specification

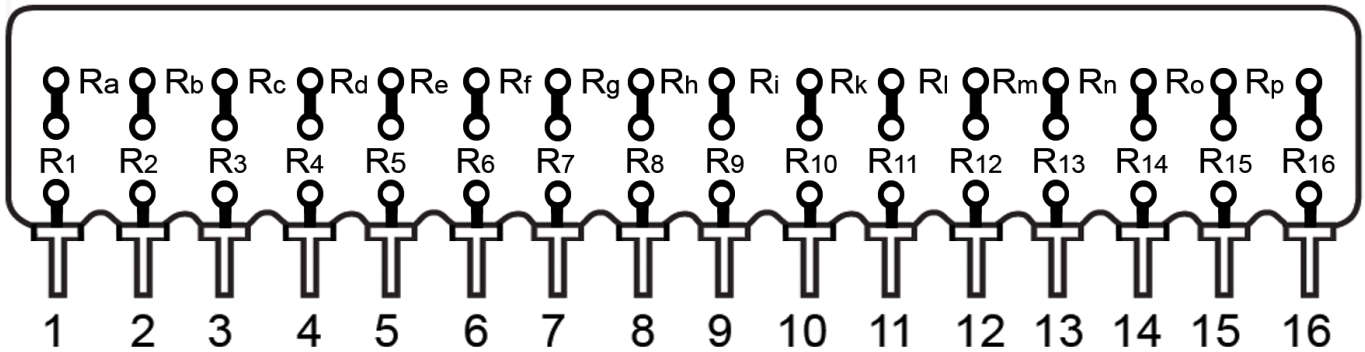|		
Standard Resistance Range		100Ω - 100KΩ
Temperature Coefficient	Tracking	±2ppm
Temperature Coefficient	Absolute	±5ppm, ±10ppm, ±25ppm
Resistance Tolerance	Ratio	±0,05% (±0,02% upon request)
Resistance Tolerance	Absolute	±0,1%, ±0,2%, ±0,5%, ±1%
Operating Voltage (max.)		100V
Power Dissipation (max.)		0,1 Watts per element
Operating Temperature Range		0°C - 70°C
Insulation Resistance		10.000 MOhm

MEGATRON MonoPac and MonoNet are thin film resistor networks in monolithic design with values between 100Ω-100kΩ with very high precision in tracking and ratio matching. They can be supplied in small quantities in our standard circuit designs or made as per your custom design. The special advantage is the freedom to position the resistor elements as per individual requirement without many restrictions. This allows the development engineer to get a very low noise and high stability performance with short lead times. Typical applications are in Analog Circuits, Test and Measuring instruments, Industrial Instrumentation etc.

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

Specifications are subject to change without notice

Precision Resistors

MEGATRON

Pins: Ra Rb Rc Rd Re Rf Rg Rh Ri Rk Rl Rm Rn Ro Rp

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}
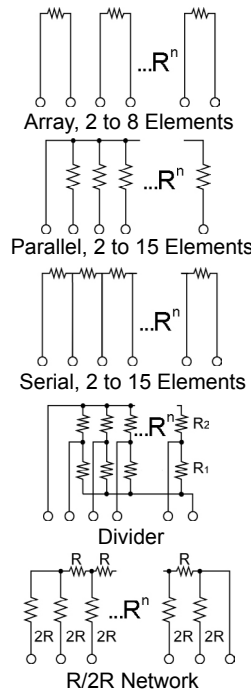
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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}			

...R^n
Array, 2 to 8 Elements

...R^n
Parallel, 2 to 15 Elements

...R^n
Serial, 2 to 15 Elements

...R^n R_2 / R_1
Divider

...R^n
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.

Specifications are subject to change without notice