

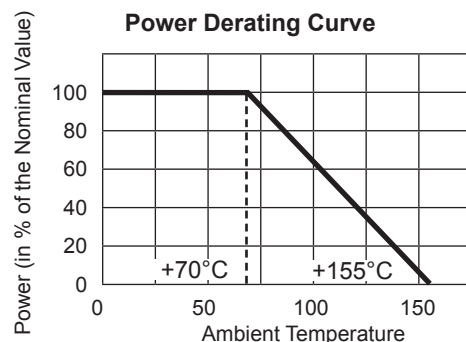
- Up to 10 Resistive Elements / 11 Pin
- Any Resistance from 30Ω to 120kΩ
- Standard TCR from ±5 ppm/K
- Tolerance from 0,01%, Matching from 0,01%
- Rugged Epoxy Housing
- Low Inductive, Low Current Noise

Spezifikation

| | | | |
|-----------------------------|----------------------------|---|---------|
| Resistance Range | 30Ω - 120kΩ | | |
| Power | 1,5Watt (Total Resistance) | | |
| Tolerances | Absolute / Matching | | |
| | 30Ω - 120kΩ | ±0,01%, ±0,02%, ±0,05%, ±0,1%, ±0,5%, ±1% | |
| Temperature Coefficient | Absolute | Tracking | |
| | 0 ±5ppm/K | 1 < R _{max.} /R _{min.} ≤ 10 | ±1ppm/K |
| | | 10 < R _{max.} /R _{min.} ≤ 100 | ±2ppm/K |
| | | R _{max.} /R _{min.} > 100 | ±3ppm/K |
| Operating Temperature Range | -55°C bis 150°C | | |
| Insulation Resistance | >10 GOhm | | |

Mechanical Data

| | |
|--------------------|--------------------|
| Housing | Epoxy |
| Resistance Element | NiCr - Foil |
| Carrier | Steatit |
| Leads | Copper, Tin Plated |



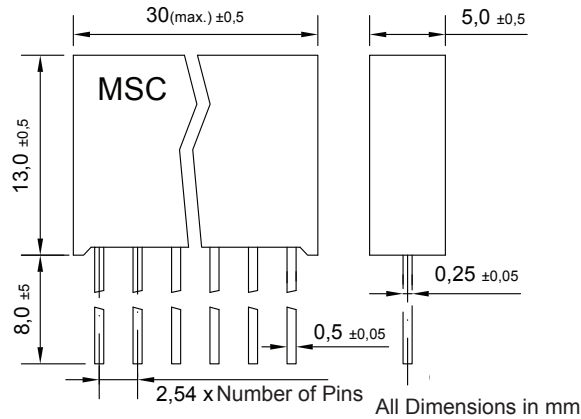
| Parameter | Test | Δ Ratio | ΔR |
|---------------------------|---|---------------|--------|
| Load Life | 90 min ON, 30 min OFF, 1000h at 70°C | ±0,01% | ±0,05% |
| Overload | 2,5 x Related Voltage, 5 Seconds | ±0,01% | ±0,05% |
| Humidity | 90 - 98% RH, Related Voltage, 240h, at 40°C | ±0,01% | ±0,05% |
| Thermal Shock | -55°C 30 min, +155°C 30min. 5 Cycles | ±0,01% | ±0,05% |
| Vibration | 20G, 10Hz - 55Hz - 10Hz, X,Y,Z je 1 min, 2h | ±0,01% | ±0,03% |
| Shock | 100G, 6ms, Saw Tooth, X,Y,Z je 6 Shocks | ±0,01% | ±0,03% |
| Soldering Heat Resistance | 350°C ±5°C, 3 Seconds | ±0,01% | ±0,03% |
| Solderability | 245°C ±5°C 5 Seconds | Coverage >95% | |
| Storage Life | 15°C bis 35°C, 15 - 75% RH, load free, 10000h | ±0,01% | ±0,03% |

Resistors

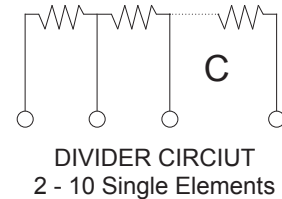
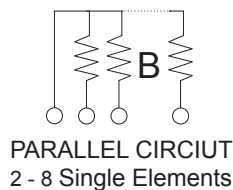
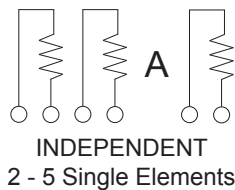
Precision - Networks

MCS - series

Technical Drawing



Layout- / Circuit Layouts



As an option the networks in parallel and divider circuit can be divided into 2 independently, electrically isolated circuits. Note: maximum number of pins in parallel circuits is 10 and in divider circuit 11. Please send your circuit layout together with your inquiry.

Ordering Information

| MSC | WA0,1% | WM0,1% | TK5 | 10k/10k | A |
|------|---|---|-------------------------------|--|--|
| Type | Tolerance (absolute) | Tolerance (matching) | Temp.- Coefficient (absolute) | Resistance Value | Layout |
| | ±0,01%, ±0,02%, ±0,05%, ±0,1%, ±0,5%, ±1% | ±0,01%, ±0,02%, ±0,05%, ±0,1%, ±0,5%, ±1% | ±5ppm | (30Ω - 120kΩ) The total resistance must not exceed 120kΩ! | A - Array B - Parallel Circuit C - Divider Circuit |

Note: All specifications and information in this data sheet are not considering customer's special requirements. All containing information of this data sheet are not a binding description of the product's properties. MEGATRON is not responsible for any damage caused by an improper use of the product. The customer has the responsibility to check the usability of the product in his application. MEGATRON does not guarantee the reproducibility of their publications.