

Resistor series F (CuNiMn-Foil)

Measurements	Standard	Test Condition	Max. Change
Load Stability	DIN IEC 115 Part 1	1000h / 70°C / 0.75 P _n 90 min / 30 min	0.05%
	DIN IEC 115 Part 1	1000h / 70°C / P _n 90 min / 30 min	0.1%
Dry Heat	DIN IEC 115 Part 1	16h / 130°C	0.1%
Coldness	DIN IEC 115 Part 1	2h / -40°C	0.1%
Fast Temperature-cycle test	DIN IEC 115 Part 1	5 Cycles / -40°C / +130°C / 30 min	0.1%
Moisture resistance	DIN IEC 115 Part 1	56 days / 40°C / 93% rh	0.05%
Resistance to soldering heat	DIN IEC 115 Part 1	250°C / 5s (Method B)	0.05%
Terminal Strength	DIN IEC 115 Part 1	Test condition depends on contact	0.1%

Resistor series U (NiCr-Foil)

Measurements	Standard	Test Condition	Max. Change
Load Stability	DIN IEC 115 Part 1	1000h / 70°C / 0.75 P _n 90 min / 30 min	0.005%
Dry Heat	DIN IEC 115 Part 1	16h / 155°C	0.01%
Coldness	DIN IEC 115 Part 1	2h / -55°C	0.01%
Fast Temperature-cycle test	DIN IEC 115 Part 1	5 Cycles / -55°C / +155°C / 30 min	0.01%
Moisture resistance	DIN IEC 115 Part 1	56 days / 40°C / 93% rh	0.05%
Resistance to soldering heat	DIN IEC 115 Part 1	250°C / 5s (Method B)	0.01%
Terminal Strength	DIN IEC 115 Part 1	Test condition depends on contact	0.01%

Resistor series K and N (Thickfilm)

Measurements	Standard	Test Condition	Max. Change
Load Stability	DIN IEC 115 Part 1	2000h / 70°C / 0.75 P _n 90 min / 30 min	1.0%
Short Overload	DIN IEC 115 Part 1	5s / 2.5 x P _{rated} or U _{max}	0.5%
Dry Heat	DIN IEC 115 Part 1	16h / 155°C	0.25%
Coldness	DIN IEC 115 Part 1	2h / -55°C	0.25%
Fast Temperature-cycle test	DIN IEC 115 Part 1	5 Cycles / -55°C / +155°C / 30 min	0.25%
Moisture resistance	DIN IEC 115 Part 1	56 days / 40°C / 93% rh	0.25%
Resistance to soldering heat	DIN IEC 115 Part 1	250°C / 5s (Method B)	0.1%
Terminal Strength	DIN IEC 115 Part 1	Test condition depends on contact	0.1%