

Resistor Series F (CuNiMn-Foil)

Measurements	Standard	Test Condition	Max. Change
Load stability	DIN IEC 115 Part 1	1,000 h / +70°C / 0.75 P _n 90 min / 30 min	0.05%
	DIN IEC 115 Part 1	1,000 h / +70°C / P _n 90 min / 30 min	0.1%
Dry heat	DIN IEC 115 Part 1	16 h / +130°C	0.1%
Coldness	DIN IEC 115 Part 1	2 h / -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 / 5 s (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	1,000 h / +70°C / 0.75 P _n 90 min / 30 min	0.005%
Dry heat	DIN IEC 115 Part 1	16 h / +155°C	0.01%
Coldness	DIN IEC 115 Part 1	2 h / -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 (Thick Film)

Measurements	Standard	Test Condition	Max. Change
Load stability	DIN IEC 115 Part 1	2,000h / +70°C / 0.75 P _n 90 min / 30 min	1.0%
Short overload	DIN IEC 115 Part 1	5 s / 2.5 x P _{rated} or U _{max}	0.5%
Dry heat	DIN IEC 115 Part 1	16 h / +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%