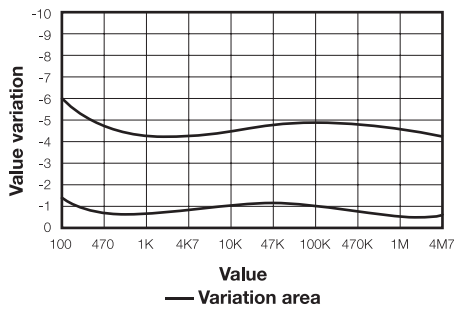


Tests and reliability. Carbon test

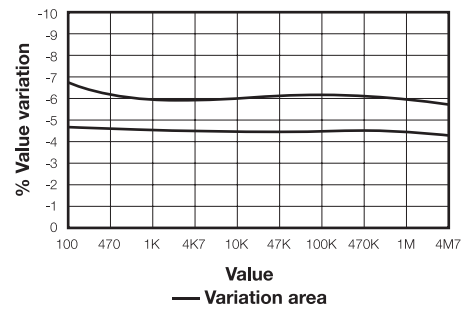
Carbon test

Test	Conditions	Typical variation of Nominal Resistance
Damp heat	500 h. at 40°C and 95% RH	+5%; -2%
Thermal cycles	16h at 85°C, plus 2h at -25°C	±2,5%
Temperature coefficient	-25°C / +70°C	100Ω - 10KΩ +200/ -300 ppm. >10KΩ - 5MΩ +200/ -500 ppm
Load life	1.000 h. at 40°C	+0%; -5%
Mechanical life	1000 cycles at 10 c.p.m.	±3%
Soldering effect	2 seconds at 350°C	±1%
Storage (3 years)	at 23°C ± 2°C	±3%

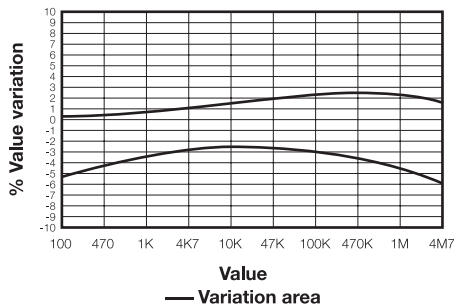
Load life



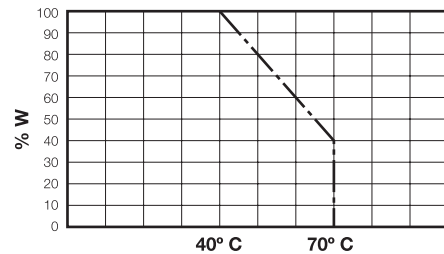
Mechanical life



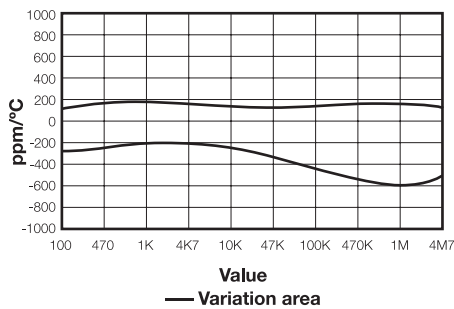
Damp heat



Power derating curve



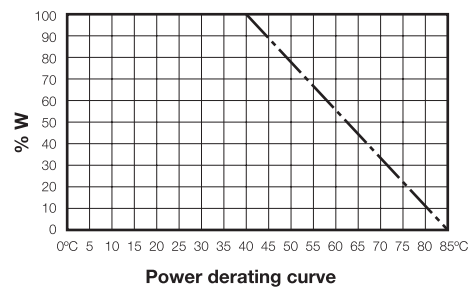
Temperature coefficient



Temperatures out of range:

The normal operation temperature range for an ACP carbon potentiometer is -25° ... +70°. When used at up to 85°C (at higher temperatures) the following variations should be observed:

Load Life	1.000 h. at 40°C	+0%; -5%
	1.000 h. at 85°C	+0%; -15%

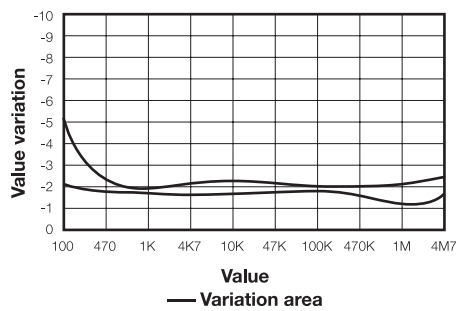


Tests and reliability. Cermet test

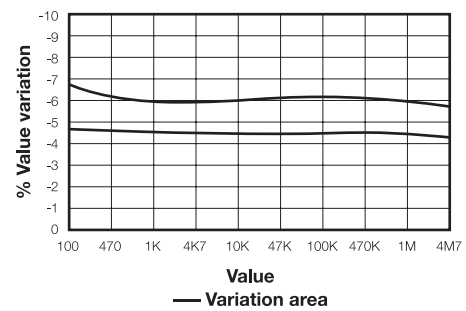
Cermet test

Test	Conditions	Typical variation of Nominal Resistance
Damp heat	500 h. at 40°C and 95% RH	±2%
Thermal cycles	16h at 90°C, plus 2h at -40°C	±2%
Temperature coefficient	-40°C/+90°C	±100ppm
Load life	1.000 h. at 70°C	±2%
Mechanical life	1000 cycles at 10 c.p.m.	±2%
Soldering effect	2 seconds at 350°C	±1%
Storage (3 years)	at 23°C ± 2°C	±3%

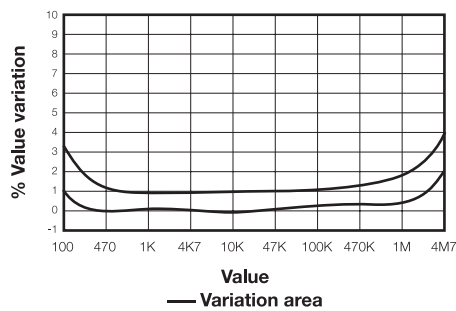
Load life



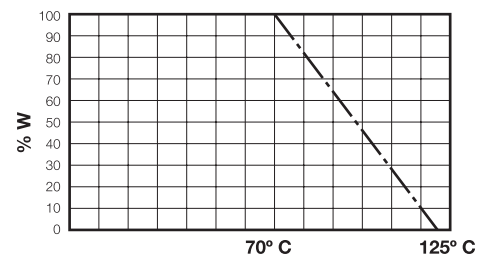
Mechanical life



Damp heat



Power derating curve



Temperature coefficient

