

TESTS	Piher typical test results 95% LOTS ΔR (%)	Value DIN std 41450 ΔR (%)	TEST METHOD (DIN STD 41450)
Resistance to soldering heat	< $\pm 1\%$	< $\pm 2\%$	a) Subject component to a temperature of 55° C and $\leq 20\%$ RH for 24 hours, after recovery measure total R. b) Immerse terminals in a Sn/Pb(60/40) bath at 260° C to within 3mm of the body for 10 sec (potentiometer mounted on a p.c.b. of 1.5 mm thickness). c) Measure total R after 24 hours at normal ambient. **
Solderability	95% of treated surface covered with solder		Bath in flux (25% colophony) for 5 sec then immerse terminals in a Sn/Pb (60/40) bath at 235° C for 5 sec.
Temperature cycling	< $\pm 2\%$	< $\pm 10\%$	a) Precondition * for 24 h, measure total R. b) 16 h. at 105° C $\pm 2^{\circ}$ C c) Precondition * for 2 hours. d) 2 h. at -40° C $\pm 2^{\circ}$ C e) 16 h. at normal ambient. **
Temperature coefficient	< ± 100 ppm/° C	100 Ω to 22 k Ω ± 1000 ppm/° C > 22 k Ω to 4.7 M Ω +300/-1000 ppm/° C	a) Subject component to a temperature of 55° C and $\leq 20\%$ RH for 24 h and recovery. b) Measure total R after 1/2 h. at - 40°C, 90 ° C and normal ambient. ** (all at $\leq 50\%$ RH).
Damp Heat	< $\pm 2\%$	< $\pm 15\%$	a) Precondition * for 24 h. measure total R b) 500 h. at 40° C. 90-95% RH. c) Measure total R after 24 h. at normal ambient. **
Mechanical Life	< $\pm 2\%$	100 Ω to 100 k Ω < $\pm 5\%$ > 100 k Ω to 4.7 M Ω < $\pm 10\%$	a) Precondition * for 24 h. measure total R. b) Apply 500 complete turns at speed of 10-15 r.p.m. c) Measure total R.
Electrical Life	< $\pm 2\%$	< $\pm 10\%$	a) Precondition * for 24 h. measure total R. b) 1000 h. at 70° C $\pm 2^{\circ}$ C applying W_R without exceed V_p c) Measure total R. 1.5h ON 0.5h OFF
Resistance to cleaning Fluids and Solvents	< $\pm 1\%$	< $\pm 10\%$	a) Precondition * for 24 h. measure total R. b) Immerse for 10 minutes in each of the following fluids: alcohol, isopropyl alcohol and freon TMC. c) Measure total R after 24 h. at normal ambient. **
Vibration	< $\pm 2\%$	< $\pm 3\%$	2 hour cycles in each of the X, Y and Z planes (6 hours). The wiper is set at mid point (50%). Frequency 10 Hz. - 55 Hz.
Storage	< $\pm 2\%$	< $\pm 5\%$	a) Preconditions * for 24 h. measure total R b) Store for 6 months at normal ambient. ** c) Precondition * for 24 h. measure total R at normal ambient. **

Notes: * Preconditioning: store the samples at 23° $\pm 2^{\circ}$ C and 50 $\pm 5\%$ RH.
 ** Normal ambient: temperature of 23° $\pm 2^{\circ}$ C and 45% to 70% RH.