
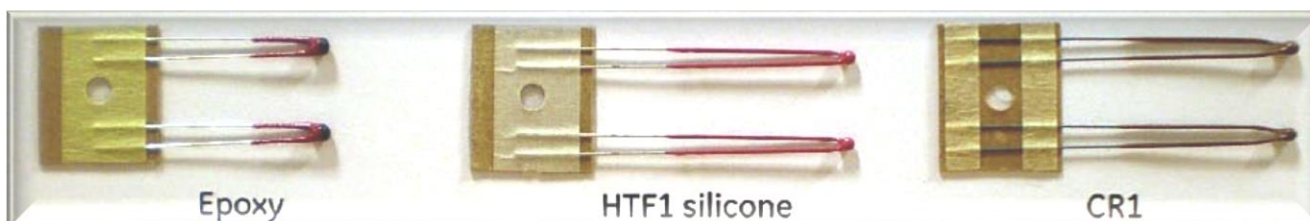


NK Automotive AEC Q200 Thermistors - with Real Drive

Willow Technologies Limited (www.willow.co.uk) introduces Amphenol's innovative new **Automotive grade NTC Thermistors** with newly advanced coatings. These temperature sensors have been developed to meet new demands in Automotive and Electric Vehicle markets (AEC-Q200: Rev D automotive standard compliant) where there is an ever increasing need for use in high temperature, high moisture, high thermal shock & more corrosive (acidic) environments. The HTF1 or CR1 coated thermistors offer similar protection levels to those achieved with historic glass coated thermistors but feature enhanced flexibility in the connection leads. 

Said Martin Pearce, Marketing Director of Willow Technologies, 'New coating materials have enabled NTC Thermistors to meet key requirements stipulated within the automotive industry for quality, reliability and stability'. The **NK temperature sensors** are available with bead sizes down to 2.4mm, Insulated lead lengths from 3mm to 30mm, with three different coatings options; epoxy, silicone HTF1 and CR1. The CR1 coating provides fast speed of response; <3secs in 6m/s airflow with a continuous operational temperature ran of -40 to +190°C. Extensive testing has been completed on the device; thermal shock >5000 cycles -40°C/155°C, water immersion >2000h at 80°C and acid/fuel resistance by accelerated NOx test for 840hours.

The NK has leads designed for flexibility with a 180° bend around 1mm mandrel achievable. Insulation is 1000VDC when immersed in water at 25°C and dielectric strength 50kV/mm. The new CR1 coating provides an NK with improved protection for temperature sensing in harsh environments such as EGR loops, air intake manifolds, HVAC systems and Euro 6 compliant emissions technologies. It's optimised for corrosion & moisture resistance, high temperature operation & mechanical strength & flexibility.



NK Series NTC Temperature Sensors

Editor Information

Founded in 1989, Willow Technologies is located in Copthorne, West Sussex in the UK. We provide electronic solutions to customers by designing, manufacturing and supplying components and systems globally to the electrical and electronic marketplace. Specialists in switching, sensing, resistive and hermetic seal solutions we have a wide portfolio of sensing technologies and over 100 years of application experience. Our in-house engineering capability and rapid prototyping facility for custom parts enable us to develop products to match specific application requirements. Willow is ISO9001:2000 registered.

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