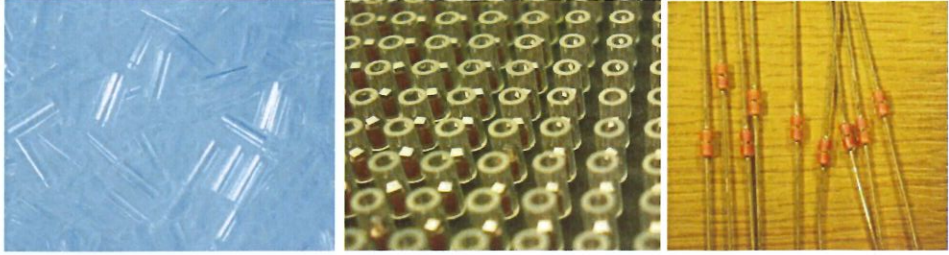




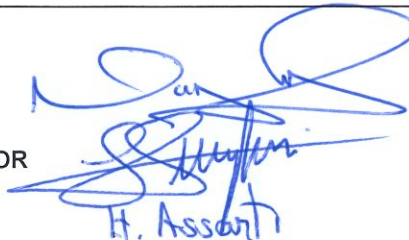
# Amphenol Advanced Sensors

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<b>NOTIFICATION OF CHANGE</b>	CUSTOMER : <b>GENERAL</b>	ISSUE : <b>A</b>
<b>DK TYPES LEAD-FREE GLASS</b>	DATE : <b>5 February 2019</b>	No. :061900
CUSTOMER SERIAL No.	ORIGINATOR : <b>CRD</b>	PAGE 1 OF 1

<b>AFFECTED TYPES</b>	DK diode format NTC thermistor types ; DKA,DKF,DKG,DKC,DKS	
<b>CHANGE SUMMARY</b>	Glass tubing for component encapsulation change to Pb-free material	
1. Glass tubing 2. Assembly 3. DK components		
<b>REASON FOR CHANGE</b>	Industry transition to reduced Pb content in components to minimise environmental impacts. Obsolescence of existing raw material requiring RoHS exemption 7(c)- 1.	
<b>DATE OF CHANGE</b>	30 March 2019 rolling conversion. Product may be supplied with either Pb-free or Pb containing material until material stocks are depleted. Pb-free batches will be clearly labelled	
<b>EFFECT ON PRODUCT</b>	Product will be supplied to existing customer specifications. Change only to internal Amphenol manufacturing process specifications Materials : Substitute Pb-free glass for Pb containing glass Electrical properties : No change Physical properties : No change Mechanical properties : No change	
<b>AFFECTED BATCHES</b>	Last batch/old process : No notification First batches/new process : Notification on first 3 batches	
<b>QA CHANGES</b>	Final test procedures as for existing product	
<b>AMPHENOL CONTROLS</b>	Incoming Goods verification as for current supplier. Change control on manufacturing processes	
<b>ENGINEERING EVALUATION</b>	Pb-free glass assembled to finished product and tested to existing qualification standards assessed as appropriate to the change. Critical tests identified from AECQ200/CECC performance requirements were applied to evaluate upper category ageing temperature, biased humidity, operational life, dissipation, time constant and thermal shock. See separate engineering report.	
<b>ENGINEERING SUMMARY</b>	Amphenol internal process changes approved for DK assembly using Pb-free glass. No change in functional performance identified with revised materials. No risk identified for finished product.	

APPROVALS : QUALITY MANAGER  
TECHNICAL DIRECTOR



H. Assart