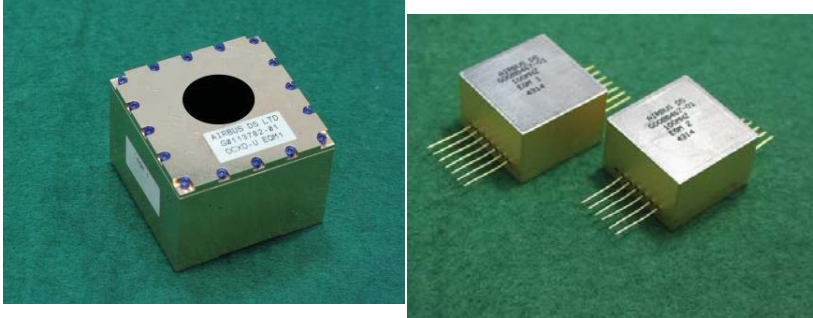


Activity Title:	<i>Quartz Oscillator Development</i>		
Contract type	ARTES 3.4	Budget (k€)	660
Company (-ies) <i>(including country)</i>	Airbus Defence and Space Ltd, UK		
Team <i>(name of the participants in the project)</i>	Project Manager: Andy Mason, Airbus Defence and Space Lead Engineer: Andrew Byrne, Airbus Defence and Space Design Engineer: Ashley Cook, Airbus Defence and Space PA: Simon Rose, Airbus Defence and Space		
(*) Speaker (s)	Ashley Cook	Email	ashley.cook@airbus.com
Short Speaker Information <i>(experience and involvement in this project – maximum 60 words)</i>	Ashley Cook joined Airbus Defence and Space in 2011, working on various OCXO projects. He was responsible for the TCXO in this ARTES project. He is currently a Responsible Engineer on Master Reference Oscillator equipments for Telecommunication satellites.		
Summary of the activity <i>(maximum 400 words and 2 pictures)</i>	<p>The objectives were to develop four quartz crystal oscillators:</p> <ul style="list-style-type: none"> • OCXO-U: an ultra-stable OCXO, based on the Airbus existing “FOAMO” product, for master oscillator applications • OCXO-S: a mid range OCXO for the most demanding frequency converter and receiver applications, beacons and less demanding master oscillators • TCXO: a TCXO for a wide range of applications including frequency converters and receivers and transponders • VCXO: a VCXO for a range of phase locked-loop and other clock applications <p>This work was a follow-on from ARTES 5.2 Contract 23111/10/NL/AD which took the four designs to EM versions. The 5.2 work identified a number of specification updates and design modifications that were required. As a result further EM development occurred under this contract prior to EQM build and test.</p> <p>All development, assembly and test work activities were completed. EQMs were built for all designs and subjected to an environmental test campaign. The assembly process qualifications were successfully completed.</p>		
			

(*) The speaker needs to do the registration through this website