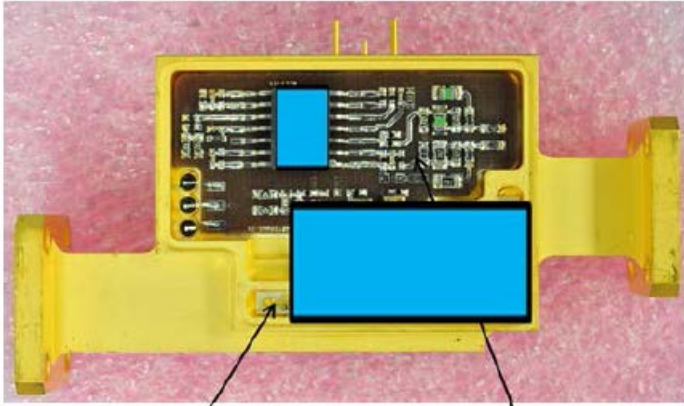


Title:	Development of a Low Noise Amplifier for Application in future Multi-beam Ka Band Payloads		
Contract type	<i>ARTES 5.2</i>	Budget (K€)	351 k€
Company (-ies) (including country)	Airbus, Space & Defence		
Team (name of the participant in the project)	Steve Parker Mike Brennan, Sijiao Sun		
(*) Speaker (s)	Steve Parker Mike Brennan	Email	steve.parker@astrium.eads.net michael.brennan@astrium.eads.net
Short Speaker Information (experience and involvement in this project)	Project Manager at Airbus, Space & Defence Senior RF Engineer at Airbus, Space & Defence (Responsible for the Ka-Band LNA Design)		
Summary of the activity	<p>The Ka-Band LNA programme has resulted in the development of an EM Ka-Band LNA with NF < 2.1 dB at 20C and covers the 27.5 GHz – 31.0 GHz frequency range. A low-loss waveguide-to-microstrip transition design and use of a mHEMT amplifier at the front-end were key to achieving low NF. Substantial progress has been made in developing the techniques to assemble a hermetic cavity containing the low-loss waveguide-to-microstrip transition. This has provided a design from which to proceed to EQM development.</p>  <p style="text-align: center;">RF Chain Temperature Compensation Board</p>		

(*) The speaker needs to do the registration through the [website](#)