

R → D → P
2010



MINISTRY OF DEFENCE



SELEX GALILEO
A Finmeccanica Company

BAE SYSTEMS

THALES

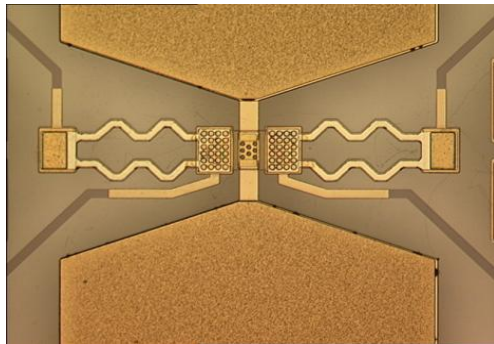


roke Manor Research Ltd
a Siemens company

EMRS DTC
Electro-Magnetic Remote Sensing (EMRS) Defence Technology Centre (DTC)

inex

As part of a UK defence industry and Ministry of Defence collaboration, INEX is developing RF MEMS technology for the fabrication of miniaturised, switchable, tunable, and reconfigurable microwave filters. The project monolithically integrates a low voltage MEMS switch (INEX) and novel filter design (J Hong, Heriot Watt University). It provides filters of reduced size, increased functional complexity and density, reducing systems level cost and offering multi-band operation with enhanced receiver dynamic range and protection.

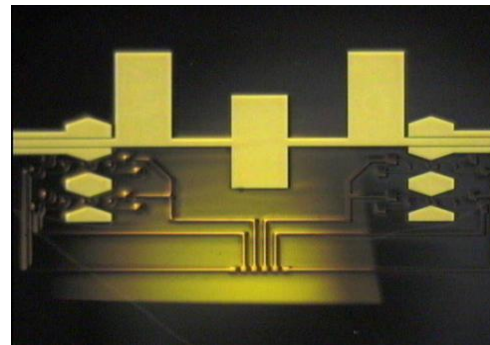


Substrate: Quartz (150 mm, 500µm)

Technology: Microstrip, suspended bridge, capacitive actuation

Scope: Research & Development

2010



Integration: Monolithic integration of switch & filter in microstrip technology

Application: Electronic warfare and wideband radar systems, compact lightweight multifunctional radar systems for unmanned aerial vehicles, mobile communications base-stations, etc.

