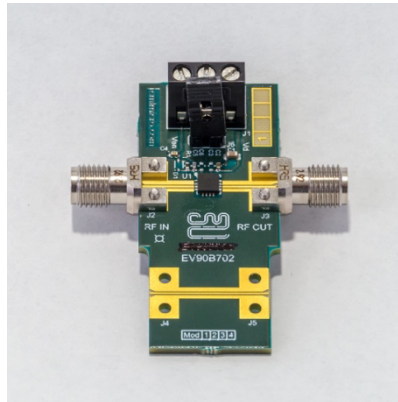




PRFI reaches milestone 150th MMIC design

CAMBRIDGE, UK: 31 May 2023 — [PRFI](#), the UK custom MMIC design specialists, has announced a significant milestone: its 150th custom MMIC design, a low-current mmWave gain block, has moved to production.



The company has a reputation for high quality, successful design work, with an impressive list of clients that includes Samsung, Sony, Analog Devices, BAE Systems and Qorvo.

The milestone MMIC provides a small-signal gain of 17dB across an operating range of 23 to 29.5GHz from a very low current consumption of just 10mA. It is housed in a low-cost 3mm x 3mm QFN package and is fully matched to 50Ω, making its use very straightforward. The part was designed for CML Microcircuits' SμRF product range, and is commercially available as the [CMX90B702](#). A companion part has also been designed by PRFI, which has similar gain with the same very low 10mA current consumption and covers 17 to 23GHz.

"We are delighted to have reached the significant milestone of 150 MMIC designs, which demonstrates the extensive design experience of our team" said Liam Devlin, CEO of PRFI.

"The 10mA current consumption is an industry-leading figure and the two parts we developed cover 17 to 29GHz, making them very useful building blocks in a wide range of applications. We were pleased that we could use our innovative design techniques to create a solution able to

reduce the current to such low levels while still covering a significant operating band with a good level of gain.”

PRFI will be exhibiting at the International Microwave Symposium in San Diego, 13 – 15 June 2023, on booth 1820.

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About PRFI

PRFI is a UK-based design house specialising in the design and development of RFICs, MMICs and microwave/mmWave modules. We have designed over 150 custom ICs at frequencies ranging from baseband to 100GHz and are a third party design house for Wolfspeed, GCS, Qorvo and WIN. Our designs are used in a wide range of applications from test instrumentation to infrastructure equipment and very high volume consumer wireless devices. We have in-house test facilities for both bare die (RFOV) and SMT packaged components. Our microwave and mmWave module development activity encompasses a wide range of technologies including conventional SMT on laminate substrates, High Density Interconnect (HDI), chip and wire, thin film, thick film and LTCC.