

Utilisation of Microsystems Technology in Radio Frequency and Microwave Applications

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Summary. The market trends of the rapidly growing communication systems require new product architectures and services that are only available by utilizing technologies beyond that of planar integrated circuits. Microsystems technology (MST) is one such technology which can revolutionise radio frequency (RF) and microwave applications. This article discusses the enabling potential of the MST to meet the stringent requirements of modern communication systems. RF MST fabrication technologies and actuation mechanisms empower conventional processes by alleviating the substrate effects on passive devices and provide product designers with high quality versatile microscale components which can facilitate system integration and lead to novel architectures with enhanced robustness and reduced power consumption. An insight on the variety of components that can be fabricated using the MST is given, emphasizing their excellent electrical performance and versatility. Research issues that need to be addressed are also discussed. Finally, this article discusses the main approaches for integrating MST devices in RF and microwave applications together with the difficulties that need to be overcome in order to make such devices readily available for volume-production.

Keywords: MST, Microsysteming, MEMS, RF Integrated Circuits

Introduction

The rapidly growing communication systems entail demands for a wide range of radio frequency (RF) and microwave transceivers, and as a consequence, the research and development of such systems has dramatically increased in these last years. Amongst the common demands of present day and future RF and microwave applications, one finds the need for lower weights, low power consumption and low cost with increased functionality, frequency of operation and component integration. Consumers also demand for highly personalised, ever-present access to information together with growing volumes of data traffic and the need of higher quality products.

Such market needs require new product architectures that are enabled by technologies beyond that of planar integrated circuits (ICs). Microsystems technology (MST) is one such technology and is on the verge of revolutionising RF and microwave applications (Hilbert & Morris 2002). RF MST provides product designers with high quality versatile three-dimensional (3-D), microscale design components that can be manufactured using traditional IC batch fabrication techniques. These components have the potential for enhancing performance and robustness together with the reduction of power consumption and size of modern wireless architectures (Nguyen 2005).

RF MST components are generally classified into two categories: micro-machined components and micro-electro-mechanical systems (MEMS). The difference between them is that in an RF MEMS component, in addition to the micro-machined RF element, there is an electro-mechanical actuator which is able to convert a voltage or current signal into a

mechanical movement to provide re-configurability to the device. RF MEMS are generally actuated using electro-static, piezoelectric, magnetic or electro-thermal mechanisms. In contrast to European terminology, in the US and Asia, the term MEMS loosely represents microsystems technology (Lucywayn 2004).

Very high quality factor (Q) passive devices, such as tunable capacitors with Q values up to 300 at 1 GHz (Young & Boser 1996, Yoon & Nguyen 2000) and inductors with Q values up to 85 at 1 GHz (Van Steylenbergh *et al.* 2002), transmission line structures (Domenbrand *et al.* 2004, Kintis & Berens 1997), mechanical resonators (Wang *et al.* 2004a, 2004b) and switches with insertion loss as low as 0.1 dB (Yao *et al.* 1999) are achievable using MST. Such devices can be implemented as discrete components or, for highly-integrated portable applications, merged with ICs through post-processing manufacturing techniques. MST components have been a very interesting area for research and development showing their excellent performance at microwave and even at mm-wave frequencies (Miklavjevic 2004). Such excellent performance comes from the possibility of the MST to limit the substrate coupling effects and the availability of metal structures with low parasitic capacitance and contact resistance.

RF MST structures are already being developed for switching applications such as transmit/receive duplexers (TRD) and band/ mode selection which is fundamental for modern wireless multi-mode multi-standard applications. Also micro-machined film bulk acoustic resonators (Ott & Rahnay 2003) are already carried in many mobile handset platforms for two-way voice and data traffic (Coventor Inc. 2005). New applications are emerging as

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