

ABSTRACT**Passive microelectronic components, capable of allowing a radiofrequency or hyperfrequency signal to travel in a single direction**

The invention relates to passive radiofrequency microelectronic components for an integrated circuit, of the type including a dielectric substrate (S) and at least one metal conductive layer positioned on said substrate, said conductive layer including at least one first metal conductive portion (C1) and a second metal conductive portion (C2) separated by an insulation (I). A microelectronic component according to the invention includes at least one graphene layer (G) positioned so that a radiofrequency or hyperfrequency signal crosses said at least one graphene layer (G) when it is transmitted between said first metal conductive portion and said second metal conductive portion, said graphene layer (G) being able, when it is subject to an electric potential, to transmit said radiofrequency or hyperfrequency signal along a first direction and to attenuate said radiofrequency or hyperfrequency signal along a second direction opposite to said first direction. The invention in particular applies for microelectronic components of the transmission line type, of the capacitive type and of the micro-switch type.

Fig. 9