

Title (en)
Wide band printed dipole antenna for microwave and mm-wave applications

Title (de)
Breitbandige gedruckte Dipolantenne

Title (fr)
Antenne dipole imprimée à large bande

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Application
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Abstract (en)
The present invention relates to an antenna comprising a dielectric substrate means (1) comprising a front and a back face (2, 3), at least one dipole means (4) comprising a first and a second element (5, 6) for radiating and receiving electromagnetic signals, said first element (5) being printed on said front face and said second element (6) being printed on said back face (3), metal strip means (7) for supplying signals to and from said dipole means (4), said metal strip means (7) comprising a first line (8) printed on said front face (2) and coupled to said first element (5) and a second line (9) printed on said back face (3) and coupled to said second element (6), and reflector means (10) spaced to and parallel with said back face (3) of said dielectric substrate (1), a low loss material (11) being located between said reflector means (10) and said back face (3) and having a dielectric constant less than 1.2, wherein said first and said second lines (8, 9) are balanced and arranged parallel and opposite to each other on said front and back dielectric face (2, 3), respectively. The present invention relates to a low cost wide band planar printed antenna solution for microwave and mm-wave range. A particular solution for 60 GHz with low and high gain is introduced. <IMAGE>

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