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| **Abstract:** |  |
| An E-shaped micro strip patch antenna is designed and analyzed in this paper  which operates in MICS (402.0-406.0MHz) band. The Performance has been  observed on a body of human phantom model as well as in free space with  different conducting material for the designed antenna. The height of this  antenna is taken 1.5mm from the ground plane. At resonance frequency of 405  MHz the S11 parameter is obtained in free space is -23.26dB for conducting  material of aluminum and -17.96dB is measured on human phantom body at  405 MHz of resonance frequency. FR4 is used as substrate material.  The Specific Absorption Rate (SAR) is found to be 0.3562 W/kg by placing  the antanna on human phantom model. VSWR and directivity has been  analyzed also. | |