646

Patent Number(s): CN102427150-A

Title: Three resonance absorption peaks terahertz wave band ultra material used in e.g. switch, has non-symmetrical pattern structure that is provided with single-opening metal rings connected with electric split ring resonators respectively

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Abstract: NOVELTY - The material has metal resonance units that are arranged on the surface substrate. A non-symmetrical pattern structure is formed on the metal film line the metal resonance unit, and is provided with two same single-opening metal rings and two opposite single-opening metal rings. The metal rings are connected with electric split ring resonators respectively. Predetermined formula is satisfied by adjacent two metal resonance units. The metal film line is formed using gold, silver, copper or aluminum.

USE - Three resonance absorption peaks terahertz wave band ultra material used in switch, modulator, demodulator, and filter.

ADVANTAGE - Since the terahertz wave band ultra material uses microelectronic processing technique, the cost the material is reduced. The applicability the material is improved.

DESCRIPTION DRAWING(S) - The drawing shows a cross sectional view the terahertz wave band ultra material.

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