652

Patent Number(s): CN202205868-U

Title: Periodically opening square-shaped structure for terahertz wave filter, has signal input end transmitting signal to signal output terminal through square-shaped structure transmission layer in order to filter signal

Inventor Name(s): LI J; ZHANG B

Patent Assignee(s): CHINA METROLOGY COLLEGE (CHME-Non-standard)

Derwent Primary Accession No.: 2012-F26625

Abstract: NOVELTY - The structure has a square-shaped structure transmission layer (3) fixed with a basal body (5). The square-shaped structure transmission layer is provided with an N square-shaped opening period unit, where N is a natural number. A signal input end (1) transmits a signal to a signal output terminal (2) through the square-shaped structure transmission layer in order to filter the signal. Distance between two adjacent square-shaped opening period units is 38 m. The basal body is made a high-resistance silicon material. The transmission layer is made a copper material.

USE - Periodically opening square-shaped structure for a terahertz wave filter.

ADVANTAGE - The structure has high frequency selectivity, convenient manufacture, easy integration, large bandwidth, simple structure, small size and light weight. The structure saves material and occupies less space.

DESCRIPTION DRAWING(S) - The drawing shows a perspective view a periodically opening square-shaped structure.

Signal input end (1)

Signal output terminal (2)

Square-shaped structure transmission layer (3)

Basal body (5)

Derwent Class Code(s): W02 (Broadcasting, Radio and Line Transmission Systems)

Derwent Manual Code(s): W02-A05; W02-A07A

IPC: H01P-001/20

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
CN202205868-U	25 Apr 2012	H01P-001/20	201232	Pages: 6	Chinese

Application Details and Date:

CN202205868-U CN20093297 01 Apr 2011

Priority Application Information and Date:

CN20093297 01 Apr 2011