

Title (en)

BALANCED MICROWAVE TRANSMISSION LINE WITH TWO COPLANAR CONDUCTORS

Publication

EP 0296929 B1 19920429 (FR)

Application

EP 88401429 A 19880610

Priority

FR 8708729 A 19870622

Abstract (en)

[origin: JPS6422101A] PURPOSE: To increase a valid frequency band by configuring one of two conductor wires forming a transmission line with a narrow strip line, two terminals, a wide strip line and a cavity formed inbetween so as to facilitate the connection to a connector. CONSTITUTION: A microwave transmission line is provided with 1st and 2nd conductors 1, 2 fixed on a base 3 made of a dielectric material. The 1st conductor 1 is configured only with a narrow strip line 11, the 2nd conductor wire 2 is made up of a narrow strip line 21, two rectangular end faces 22, 23, and a wide strip line 24 and the end faces 22, 23 are connected to a connector connecting a symmetrical line consisting of the strip lines 11, 21 to a coaxial line. Furthermore, a cavity 25 is formed to the conductor wire 2 and since the resonance frequency of the cavity 25 blocks a low frequency standing wave by the resonance of the symmetrical line consisting of the strip lines 11, 21, the cavity 25 acts like a specific low pass filter and the valid frequency band of the transmission line is enhanced.

IPC 1-7

H01P 1/201; **H01P 3/02**

IPC 8 full level

H01P 5/08 (2006.01); **H01P 1/201** (2006.01); **H01P 3/08** (2006.01)

CPC (source: EP US)

H01P 1/201 (2013.01 - EP US)

Designated contracting state (EPC)

DE GB NL

DOCDB simple family (publication)

EP 0296929 A1 19881228; **EP 0296929 B1 19920429**; DE 3870519 D1 19920604; FR 2616973 A1 19881223; FR 2616973 B1 19890707; JP S6422101 A 19890125; US 4871988 A 19891003

DOCDB simple family (application)

EP 88401429 A 19880610; DE 3870519 T 19880610; FR 8708729 A 19870622; JP 15245288 A 19880622; US 20593088 A 19880613