

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.

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