

Title (en)

HIGH-FREQUENCY COUPLER OR POWER SPLITTER, ESPECIALLY A NARROW-BAND 3DB COUPLER OR POWER SPLITTER

Title (de)

HOCHFREQUENZKOPPLER ODER LEISTUNGSTEILER, INSBESONDERE SCHMALBANDIGER UND/ODER 3dB-KOPPLER ODER LEISTUNGSTEILER

Title (fr)

COUPLEUR HAUTE FREQUENCE OU DIVISEUR DE PUISSANCE, NOTAMMENT COUPLEUR HAUTE FREQUENCE 3 DB OU DIVISEUR DE PUISSANCE A BANDE ETROITE

Publication

EP 1867003 B1 20080924 (DE)

Application

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Abstract (en)

[origin: WO2006105847A1] The invention relates to an improved coupler or power splitter, especially an HF coupler or an HF power splitter, characterised by the following: the four connection lines (13a, 13b; 17a, 17b) are arranged on the same side (3a) of the substrate (3); the two coupling zones (9; 25) are formed on the substrate on two opposite sides (3a, 3b); the second coupling zone (25) is connected to the associated connection lines (17a, 17b) arranged on the side (3a) of the substrate (3) opposing the coupling zone (25), by means of two via holes (21) in an electroplated manner; the capacitors (C-9a, C-9b, C- 9c, C- 9d; C-25a, C-25b, C-25c, C-25d) provided at the beginning (IIa; 18a) and at each end (IIb; 18b) of each coupling zone (9, 25) are respectively embodied as interdigital capacitors; and the capacitors (C-9a, C-9b, C-9c, C-9d; C-25a, C-25b, C-25c, C-25d) are respectively coupled to earth.

IPC 8 full level

H01P 5/18 (2006.01)

CPC (source: EP US)

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Cited by

DE102014004007A1; WO2015139813A1; US10243249B2

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