

Title (en)

Millimetric wave transformer with high transformation ratio and low insertion losses

Title (de)

Millimeterwellen-Transformator mit hohem Umwandlungskoeffizienten und geringen Einfüguingsverlusten

Title (fr)

Transformateur d'ondes millimétriques à fort coefficient de transformation et à faibles pertes d'insertion

Publication

EP 2256752 A3 20110105 (FR)

Application

EP 10164168 A 20100527

Priority

FR 0953496 A 20090527

Abstract (en)

[origin: EP2256752A2] The transformer (21) has a primary winding (23) with a turn formed of a conductive track made in a metallization level (M1). A secondary winding (25) includes a turn formed of a conductive track made in another metallization level (M2) isolated from the former level. Width of the track of the primary winding is larger than width of the track of the secondary winding and equal to total width of the secondary winding. The secondary winding is placed under an outer part of the primary turn such that outer perimeters of the windings coincide with each other. An independent claim is also included for a method of adjusting a transformation factor of a millimeter wave transformer.

IPC 8 full level

H01F 19/04 (2006.01)

CPC (source: EP US)

H01F 19/04 (2013.01 - EP US); **H01F 27/2804** (2013.01 - EP US)

Citation (search report)

- [X] EP 0516415 A2 19921202 - TOSHIBA KK [JP]
- [X] DE 10105696 A1 20020814 - ROHDE & SCHWARZ [DE]
- [X] US 2007216509 A1 20070920 - YEN ALBERT KUO HUEI [US], et al
- [A] WO 9716836 A1 19970509 - WHITAKER CORP [US]
- [A] US 2008174396 A1 20080724 - CHOI TAE-HOON [KR], et al
- [A] US 2008284553 A1 20081120 - LIM CHEE CHONG [SG], et al
- [A] DE 20022015 U1 20010301 - VOGT ELECTRONIC AG [DE]

Cited by

CN111884606A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

EP 2256752 A2 20101201; **EP 2256752 A3 20110105**; **EP 2256752 B1 20120523**; US 2010301987 A1 20101202

DOCDB simple family (application)

EP 10164168 A 20100527; US 78778210 A 20100526