

Title (en)

Adaptable dipole radiating element in printed circuit technology, method for adjustment of the adaptation and corresponding array

Title (de)

Anpassbares Dipolstrahlerelement in gedruckter Schaltungstechnik, Verfahren zur Einstellung der Anpassung und entsprechende Gruppenantenne

Title (fr)

Élément rayonnant adaptable du type dipôle réalisé en technologie imprimée, procédé d'ajustement de l'adaptation et réseau correspondants

Publication

EP 0654845 B1 19990120 (FR)

Application

EP 94460042 A 19941118

Priority

FR 9314276 A 19931124

Abstract (en)

[origin: EP0654845A1] The invention relates to an adaptable dipole-type radiating element consisting of a substrate plate (1), of a feeder line (2) situated on the lower face of the said substrate plate (1), and of a metal deposition (3) situated on the upper face of the said substrate plate (1) and substantially T-shaped: the horizontal bar of the said T consisting of two lateral strands (5, 6) separated by a coupling slot (7), and the vertical bar (11) of the said T constituting an earth plane for the said feed line (2), the said lateral strands (5, 6) constituting the radiating part of the said radiating element. According to the invention, the said feed line (2) has a first end portion (9) extending along an axis intercepting the axis of the said coupling slot (7) and extending from the said axis of the coupling slot by a first variable length (l1), the said slot (7) has a second end portion (10) extending from the axis of the said first end portion (9) of the feed line by a second variable length (l2), and the radiating element comprises first and/or second variable-capacitance means, the said first variable-capacitance means being connected between an earth plane (6) and the end of the said feed line (3) situated in the said first end portion (9), the said second variable-capacitance means being connected between an earth plane and the end of the said slot situated in the said second end portion. <IMAGE>

IPC 1-7

H01Q 9/06; H01Q 9/28; H01Q 21/06

IPC 8 full level

H01Q 9/06 (2006.01); **H01Q 9/28** (2006.01); **H01Q 21/06** (2006.01)

CPC (source: EP)

H01Q 9/065 (2013.01); **H01Q 9/285** (2013.01); **H01Q 21/062** (2013.01)

Cited by

EP1073143A1; FR2797098A1; US6281849B1

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

EP 0654845 A1 19950524; **EP 0654845 B1 19990120**; DE 69416088 D1 19990304; DE 69416088 T2 19990916; FR 2713020 A1 19950602; FR 2713020 B1 19960223

DOCDB simple family (application)

EP 94460042 A 19941118; DE 69416088 T 19941118; FR 9314276 A 19931124