

Title (en)  
Hyperfrequency coaxial connector, intended in particular for mutually connecting two printed circuit boards and manufacturing method of the same

Title (de)  
Koaxialer Hyperfrequenzanschluss, der dazu bestimmt ist, insbesondere zwei Karten mit gedruckter Schaltung miteinander zu verbinden und Verfahren zu seiner Herstellung

Title (fr)  
Connecteur coaxial hyperfréquence, destiné notamment à relier deux cartes de circuit imprimé entre elles et procédé de réalisation d'un connecteur coaxial hyperfréquence

Publication  
**EP 2768091 A1 20140820 (FR)**

Application  
**EP 14155532 A 20140218**

Priority  
FR 1351394 A 20130219

Abstract (en)  
The connector (1) has an elongate conductive element inside an insulating element (5) such that its loop (30) can be closed and elastically deformed by compression between a non-deformed position and an extreme deformed position. The free end of elongate conductive element outside of the loop is able to slide by protruding from a slot to be aligned on the second end regardless of deformed position of loop. A ring (4) is kept outside a tubular body (2) so that it can be elastically deformed by pressing against the flared surface between a non-deformed position and an extreme deformed position. The loop (30) can be closed and elastically deformed by compression on itself between a non-deformed position in which its top protrudes beyond the first end and an extreme deformed position in which its top is aligned on the first end. The ring (4) is kept outside the tubular body (2) so that it can be elastically deformed by pressing against the flared surface between a non-deformed position in which it is not pressing against the flared surface and its top protrudes beyond the first end and an extreme deformed position in which its top is aligned on the first end. Independent claims are also included for the following: (1) a method for producing a microwave coaxial connector; and (2) an electrical circuit assembly.

Abstract (fr)  
La présente invention concerne un nouveau connecteur coaxial hyperfréquence permettant une connexion carte-à carte sur une très faible distance, typiquement inférieure ou égale à 2 mm, avec des tolérances relativement importantes en valeur relative mais faibles en valeur absolue, typiquement égales à 0,2 mm et, ce tout en garantissant un bon contact électrique entre toutes les pistes des circuits imprimé à connecter.

IPC 8 full level  
**H01R 12/71** (2011.01); **H01R 13/24** (2006.01); **H01R 24/50** (2011.01); **H01R 12/91** (2011.01); **H01R 105/00** (2006.01)

CPC (source: EP US)  
**H01R 9/0515** (2013.01 - US); **H01R 9/0527** (2013.01 - US); **H01R 12/714** (2013.01 - EP US); **H01R 13/24** (2013.01 - EP US); **H01R 24/50** (2013.01 - EP US); **H01R 24/52** (2013.01 - US); **H01R 12/91** (2013.01 - EP US); **H01R 13/2442** (2013.01 - EP US); **H01R 2105/00** (2013.01 - EP US)

Citation (applicant)  
• US 6699054 B1 20040302 - CRITELLI DAVID J [US]  
• DE 102005033911 A1 20070201 - TYCO ELECTRONICS AMP GMBH [DE], et al  
• US 7416418 B2 20080826 - BERTHET VINCENT [FR], et al  
• FR 1257333 A 19610331 - AUXILIAIRE DE CONSTRUCTION POU

Citation (search report)  
• [XYI] US 2003060069 A1 20030327 - DUQUERROY PATRICK M [DE], et al  
• [Y] JP 2001230035 A 20010824 - KASASAKU ELECTRONICS KK  
• [A] DE 2823132 A1 19791129 - AMP INC  
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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 RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2768091 A1 20140820**; **EP 2768091 B1 20191009**; FR 3002371 A1 20140822; FR 3002371 B1 20150220; US 2014235100 A1 20140821; US 9065186 B2 20150623

DOCDB simple family (application)  
**EP 14155532 A 20140218**; FR 1351394 A 20130219; US 201414183842 A 20140219