

Title (en)  
Dielectric resonator

Title (de)  
Dielektrischer Resonator

Title (fr)  
Résonateur diélectrique

Publication  
**EP 1265314 A1 20021211 (EN)**

Application  
**EP 01810457 A 20010510**

Priority  
EP 01810457 A 20010510

Abstract (en)  
The composite dielectric resonator according to the invention (a "semi-lumped resonator") comprises a first transmission line (TL1), a capacitive element (C) and possibly a second transmission line (TL4), as well as at least one port for coupling to external circuits. The first transmission line comprises a first dielectric material (103,106), and the capacitive element comprises a second dielectric material (110), the second dielectric material having a magnitude of temperature coefficient of permittivity smaller than the one of the first dielectric material. Additionally to the first and possibly the second transmission line, a third transmission line (TL2), and fourth transmission line (TL3), both comprising a dielectric material (112) with a low permittivity can be present, the first transmission line (TL1), the third transmission line (TL2), the capacitor, the fourth transmission line (TL3), and possibly the second transmission line (TL4) being connected in series. <IMAGE> <IMAGE>

IPC 1-7  
**H01P 7/00**; **H01P 7/04**

IPC 8 full level  
**H01P 7/00** (2006.01); **H01P 7/04** (2006.01)

CPC (source: EP)  
**H01P 7/00** (2013.01); **H01P 7/04** (2013.01)

Citation (search report)  
• [A] US 4583064 A 19860415 - MAKIMOTO MITSUO [JP], et al  
• [A] US 4491976 A 19850101 - SAITOH TAKESHI [JP], et al

Cited by  
CN110304915A

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1265314 A1 20021211**

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