

Title (en)

Second harmonic spurious mode suppression in half-wave resonators, with application to microwave filtering structures

Title (de)

Unterdrückung von zweiten harmonischen Störmoden in Halbwellenresonatoren zur Anwendung in Mikrowellenstrukturen

Title (fr)

Suppression en mode parasite de type seconde harmonique en résonateurs à demi-ondes appliquée à des structures de filtre à micro-ondes

Publication

EP 1296406 A1 20030326 (EN)

Application

EP 01402437 A 20010921

Priority

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Abstract (en)

The invention relates to an half-wave resonator providing reduced second armonic spurious mode, the resonator comprises a $\lambda/2$ -length microstrip conductor, where λ is the line wavelength correspondent to the fundamental resonance frequency and is characterized in that it further comprises means for forcing a low voltage in the middle of the $\lambda/2$ -length microstrip conductor. Advantageously, such means for forcing a low voltage comprise a low impedance, wide-band resistor. The invention further includes a band filter and a method for providing reduced second armonic spurious mode in a half-wave resonator. <IMAGE>

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H01P 1/203; **H01P 1/212**; **H01P 7/08**

IPC 8 full level

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H01P 1/20363 (2013.01); **H01P 1/20372** (2013.01); **H01P 1/212** (2013.01); **H01P 7/082** (2013.01)

Citation (search report)

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- [X] PATENT ABSTRACTS OF JAPAN vol. 015, no. 423 (E - 1127) 28 October 1991 (1991-10-28)
- [A] PATENT ABSTRACTS OF JAPAN vol. 012, no. 285 (E - 642) 4 August 1988 (1988-08-04)

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