

Title (en)
Network element for a multiband mobile communications system

Title (de)
Netzelement für ein Mehrband-Mobilkommunikationssystem

Title (fr)
Élément de réseau pour système de communications mobiles multibande

Publication
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Application
EP 08290987 A 20081020

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Abstract (en)
The invention relates to a network element for a multiband mobile communications system, the network element comprising: a first set of transmission filters and a second set of reception filters, each filter having a stop band, a pass band around a carrier frequency, an input port, an output port, wherein each filter is designed for maximum reflection at the output port in the stop bands; a first set of quarter-wavelength transmission lines connecting the first set of transmission filters with a first connection point and a second set of quarter-wavelength transmission lines connecting the second set of reception filters with a second connection point. The network element further comprises: a first circulator with a first, a second and a third port, wherein the first port is coupled to the first connection point, and the third port is coupled to a first termination; a second circulator with a fourth, a fifth and a sixth port, wherein the fourth port is coupled to the second port of the first circulator, and the fifth port coupled to an antenna; a third circulator with a seventh, an eighth and a ninth port, wherein the seventh port is coupled to the sixth port of the second circulator, the eighth port is coupled to the second connection point and the ninth port coupled to a second termination.

IPC 8 full level
H01P 1/213 (2006.01)

CPC (source: EP)
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Citation (search report)

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