

Title (en)

ADJUSTABLE IMPEDANCE ADAPTER WITH SIMULTANEOUSLY VARIABLE INDUCTANCE AND CAPACITANCE

Title (de)

EINSTELLBARER IMPEDANZADAPTER MIT GLEICHZEITIG VARIABLER INDUKTANZ UND KAPAZITÄT

Title (fr)

ADAPTATEUR D'IMPEDANCE REGLABLE A INDUCTANCE ET CAPACITE VARIABLES SIMULTANEMENT

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Application

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Abstract (en)

[origin: WO2014184359A1] The invention proposes an adjustable impedance adapter connected at a first end to a transmitter and at a second end to a receiver. The adapter comprises a section of coaxial line extending in a coaxial direction, the section of coaxial line comprising a conductive central core extending in the coaxial direction, an electrically insulating medium surrounding the central core and a conductive shield surrounding the electrically insulating medium, and a conductive slider movable in translation inside the section of coaxial line. A first distance between the slider and the second end makes it possible to vary the inductance of the impedance adapter, and a third distance in a direction transverse to the coaxial direction between outer walls of the slider and inner walls of the shield being variable between the two ends of the section of coaxial line can be used to vary the capacitance of the impedance adapter. Therefore, the inductance and the capacitance of the impedance adapter depend on the position of the slider on the section of coaxial line.

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