

Ferrite-Loaded Helical Line with Coaxial Inner Conductor (Correspondence)

K.P. Ivanov and S.I. Ganchev. "Ferrite-Loaded Helical Line with Coaxial Inner Conductor (Correspondence)." 1971 Transactions on Microwave Theory and Techniques 19.9 (Sep. 1971 [T-MTT]): 784-786.

A transcendental characteristic equation of a thin-wire cylindrical helix with coaxial inner conductor uniformly filled with circumferentially magnetized gyromagnetic medium is derived in terms of modified Bessel functions and confluent hypergeometric functions. Two special cases of the structure are considered.

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