Under Development

Ferrite material

M-Type Ferrite Powder for 5G Electromagnetic Wave Absorber

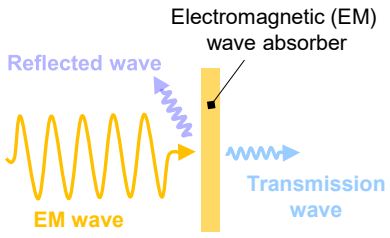
OVERVIEW

M-type ferrite powder developed by TODA KOGYO is an electromagnetic (EM) wave absorbing material that exhibits high transmission loss in 5G applicable frequency (28/39 GHz) band. By combining M-type ferrite powder with resin, it is possible to design the absorber with a desired shape.

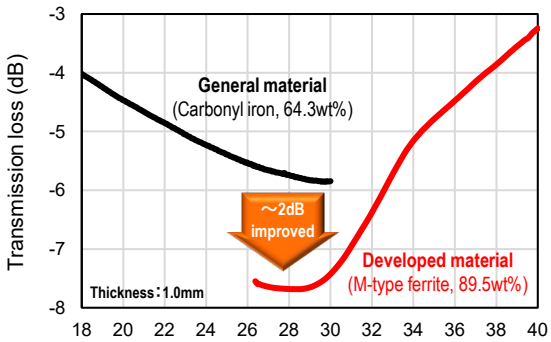
FEATURES

High transmission loss	M-type ferrite is suitable for designing 5G compatible EM wave absorbers because it has higher transmission loss than other kinds of general products.
Easy adjustment of absorption frequency	M-type ferrite has a small difference in absorption frequency due to the thickness of the EM wave absorber, and it is possible to adjust the frequency by changing the ferrite composition.

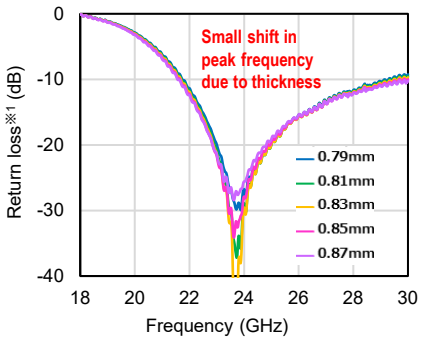
CHARACTERISTICS



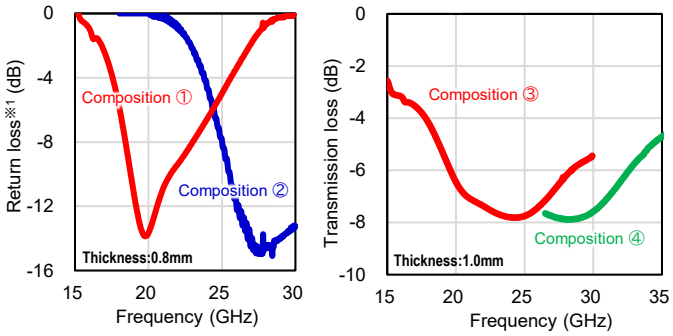
【Image of EM wave absorber】



【Comparison of transmission loss of EM wave absorbers (resin sheets)】



【Relationship between sheet thickness and peak frequency】



【Change in peak frequency with composition】

※1 Value evaluated by attaching a metal plate to the back of the sheet

APPLICATIONS

- EMC countermeasures for next-generation mobile communication equipment or communication base station for 5G

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Ver. May 2024