

Special Problem 3.G-5

Incident on a port of a **directional coupler** is power of **10.0mW**.

This directional coupler has an **insertion loss** of precisely **0.511 dB**, but is otherwise ideal.

The **other** ports of this coupler are terminated in **matched loads**.

The power absorbed by the matched load at the **through port** is **8.0 mW**.

Determine the **coupling** of this directional coupler in **dB**.