

7.2 - The T-Junction Power Divider

Reading Assignment: pp. 315-318

Three-port couplers are also known as **T-Junction Couplers**, or **T-Junction Dividers**.



HO: THE T-JUNCTION COUPLER

We will study **three** standard T-Junction couplers:

HO: THE RESISTIVE DIVIDER

HO: THE LOSSLESS DIVIDER

HO: CIRCULATORS

Now let's consider a 3dB power divider from another viewpoint; let's consider the **scattering matrix** of a (nearly) **ideal** 3dB power divider.

HO: THE (NEARLY) IDEAL POWER DIVIDER

This ideal 3dB power divider **can** be constructed! It is the **Wilkinson Power Divider**—the subject of the next section.