

## ABSTRACT

Power Divider/Combiner is a passive component which divides input to become several output signal. The character of this power divider is designed to have equal output .

At this final project, will be designed and realized a *Parad Moynihan Power Divider* 1 to 4 that works at 1800 – 2400 MHz frequency. The insertion loss desired to be achieved  $\leq 0,5$  dB, output to output isolation desired to be achieved  $\geq 20$ dB and the amount of VSWR to be achieved  $\leq 1,5$ . The method used in the designing of this power divider is microstrip based.

Measurement result show thtat insertion loss occur between 6dB with the maximum VSWR that achieved 1,2. Maximum output to output isolation is 19dB.

Keyword : power divider/combiner Parad Moynihan, microstrip.