ELKA RF

M. Hasyrm Abdillah P. 1101191095 TT-43-61

b. 
$$G_{T} = \frac{1 - |\Gamma_{0}|^{2}}{|1 - S_{11}, \Gamma_{0}|^{2}} |S_{21}|^{2} \frac{1 - |\Gamma_{0}|^{2}}{|1 - \Gamma_{0ut}, \Gamma_{0ut}|^{2}}$$

$$\frac{1 - 0.5^{2}}{|1 - 0.62 - (60^{\circ}. 0.52120)^{\circ}} \cdot 2.5^{2} \cdot \frac{1 - 0.472 - 97^{\circ}. 0.4290^{\circ}}{|1 - 0.472 - 97^{\circ}. 0.4290^{\circ}}$$

$$d_{y_{s}} = \frac{(1-|T_{s}|^{2})(1-|T_{in}|^{2})}{11-|T_{s}|T_{in}|^{2}}$$

$$(1-0.5^{2})(1-0.627^{2})$$

$$= \frac{(1-0.5^2)(1-0.627^2)}{(1-0.5272195)^2}$$