$$\frac{h_{m}h_{b}^{2}}{r_{1}^{4}+l_{1}^{2}}=k\frac{h_{m}h_{b}^{2}}{r_{2}^{4}+l_{2}^{2}}$$

$$4_{2}=24_{1}$$

$$4_{2}=24_{1}$$

$$4_{3}=24_{1}$$

$$VSWR = \frac{1 + |9|}{|-|9|}$$

$$|9| = \frac{vswR - 1}{vswR + 1} = \frac{2 - 1}{2 + 1} = \frac{1}{3}$$

$$|9| = \frac{P}{7}$$

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$$VSWR = \frac{1 + |p|}{1 - |p|} = 2.16$$

$$P = \frac{2a - 2s}{2a + 2s} = \frac{73 + j42.5 - 30}{73 + j42.5 + 50}$$

$$|9| = 0.37$$

$$A_{e} = \frac{G}{4\pi} \lambda^{2} \iff A_{e} = 0,65 \pi^{2}$$

$$= 0.65 \frac{4\pi^{2}}{(c/p)^{2}}$$

$$G_{aB} = 10 \log_{10}(0,65(\frac{2\pi r}{c})^{2}) = 20 \log_{10}(0,65(\frac{2\pi r}{c})^{2})$$

$$f = 14 \text{ fils} : (5 \approx 50)$$

$$f = 126112 : (5 \approx 48.7)$$

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