



$$\text{Eqn } k_{\text{dB}} = -15 \quad \text{Eqn } k = 10^{(k_{\text{dB}} / 20)} \quad \text{Eqn } \gamma = k \quad \text{Eqn } \beta = -j * \sqrt{1 - k^2}$$

$$\text{Eqn } S_{\text{theoretical}} = \{\{0, \beta, 0, \gamma\}, \{\beta, 0, \gamma, 0\}, \{0, \gamma, 0, \beta\}, \{\gamma, 0, \beta, 0\}\}$$

S_theoretical(1, 1)	S_theoretical(2, 1)	S_theoretical(3, 1)	S_theoretical(4, 1)
<-infinity> / 0.000	-0.140 / -90.000	<-infinity> / 0.000	-15.000 / 0.000