

Eqn $k_{\text{dB}} = -15$

Eqn $k = 10^{(k_{\text{dB}} / 20)}$

Eqn $\gamma = k$

Eqn $\beta = -j \cdot \sqrt{1 - k^2}$

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 |