

Necessary Bandwidth Calculation:

The necessary bandwidth is calculated based on “Gaussian Minimum Shift Keying (GMSK)” example from TRC-43 section 9 part V.

$$Bn = \frac{R}{\log_2 S} - 0.5RK$$

Where the following parameters are assigned:

$$R = 12 \text{ kbps}$$

$$S = 2$$

$$K = 0.28$$

The calculated necessary bandwidth of the module is 10.32 kHz.