



GAUSSIAN MINIMUM SHIFT KEYING (GMSK) MODULATION & DEMODULATION TRAINER

MODEL - GMSK100

This trainer has been designed with a view to provide practical/experimental knowledge of Gaussian Minimum shift keying Trainer (GMSK) on a SINGLE PCB.



SPECIFICATIONS

Modulation Section: -

1. Continuous phase FSK (CPFSK)
2. Minimum shift keying (MSK)
3. Gaussian frequency shift keying (GMSK)
4. Gaussian minimum shift keying (GMSK)
5. Programmable 2-, 4-, 8-ary FSK
6. Programmable modulation index h .
7. Two selectable Gaussian filter BT product : 0.5 and 0.3.
8. Programmable data rates up to 30/20/10 Mbps. (8-, 4-, 2-ary FSK)
9. Internal generation of pseudo-random bit stream and unmodulated carrier for test purposes.
10. On-board or external clock selection.
11. Connectorized 3"x 3" module for ease of prototyping. Standard 40 pin 2mm dual row connectors (left, right). Single 5V supply with reverse voltage and over voltage protection. Interfaces with 3.3V LVTTTL logic.

Demodulation Section: -

1. Demodulator for continuous phase FSK (CPFSK) and its derivatives: MSK, GFSK , GMSK
2. Programmable 2-, 4-, 8-ary FSK
3. Programmable modulation index h [0.125 to 4]
4. Programmable data rates up to 30/20/10 Mbps. (8-, 4-, 2-ary FSK).
5. Coherent demodulator for better BER performances.
6. Connectorized 3"x 3" module for ease of prototyping. Standard 40 pin 2mm dual row
7. Connectors (left, right). Single 5V supply with reverse voltage and overvoltage protection Interfaces with 3.3V LVTTTL

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

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