

SL623C, SL1623C & SL1625C

AM detector, AGC amplifier and SSB demodulators

The SL623C consists of an AM detector, an SSB detector and an AGC generator designed for use with AM. The SL623C was introduced to enable the small-signal sections of an HF AM/SSB transceiver to be completely integrated — all functions with the exception of the power amplifier can be realised with SL600 series integrated circuits. The outputs of the SL623C will drive most audio output stages with input impedances over 10 kilohms, and are particularly suitable for driving the SL630C .

In addition to its audio outputs, the SL623C AGC generator is designed to control SL610/11/12 RF/IF amplifier strips, but, unlike the SL621C AGC generator, which operates from an audio signal, the SL623C control voltage is carrier-derived. It is therefore less suitable for use with SSB or CW. However, the AGC output pins of an SL621C and an SL623C may be connected together for an SSB/AM receiver, the gain then being controlled by the device with the higher output voltage.

The SL1625C is an SL1623C without its SSB detector.