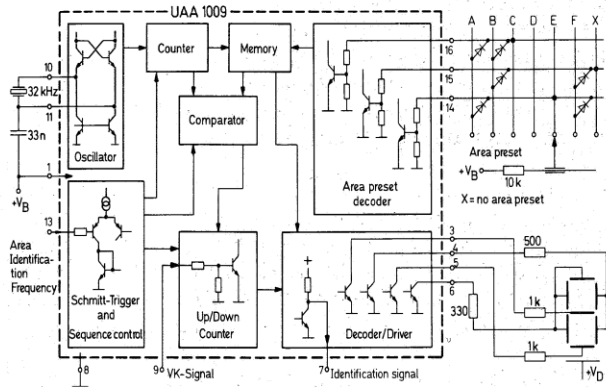


UAA1009 Traffic Broadcast Area Decoder IC (16-Pin Plastic Package)

Integrated circuit in I^2L technology for application in car radios with traffic broadcast decoder. It recognises the area identification code of a transmitter being received and delivers a signal to drive a seven-segment display unit showing the letter according to the respective area (A to F). Further, the area identification letter of a traffic station to be tuned by automatic search run may be preset into the UAA1009. At this operation mode the UAA1009 will deliver a positive voltage as identification signal if the area identification letter of the station received is the same as the preset one.

In principle the UAA1009 is a frequency meter controlled by a reference oscillator which comprises a 32 kHz crystal. Its frequency is counted continuously during every two cycles of the area identification frequency. Each count is compared with the last count stored and if equal the up/down counter counts up. Any difference counts down the up/down counter. When the up/down counter has reached count 2, the display shows the area identification letter. The further steps of this counter are reserve steps against interference, that means after a long interference-free time interval the indicator letter remains unchanged even during five cycles with interference. If the station identification signal (VK signal) disappears, the display letter extinguishes at once. By this method a high degree of interference immunity is obtained even under poor receiving conditions.



UAA1009 Block Diagram and Application Circuit