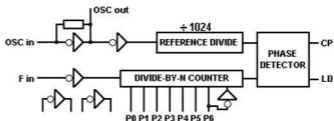
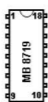


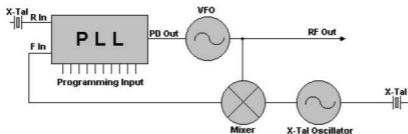
# MB8719 MB8734 RCI8719 PLL Synthesizer



## Overview

This PLL-circuit use a 6 bit (MB8734 and RCI8719) or 7 bit (MB8719) BCD binary programmable divide-by-N counter.

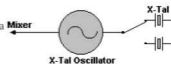
## Down-converting of the frequency to the divider



This PLL Circuit use a Mixer and a X-Tal Oscillator to convert the output frequency  $f_{OUT}$  to the  $f_{IN}$  to the PLL Circuit.

The X-Tal frequency is  $f_{XTAL} = f_{OUT} - f_{IN}$

The output frequency can be changed by changing the mixing-xtal or add a Mixer new mixing-xtal to the oscillator.





TRUTH TABLE FOR MB8719

| P6 | P5 | P4 | P3 | P2 | P1 | P0 | Divide by N |
|----|----|----|----|----|----|----|-------------|
| 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 + 128     |
| 0  | 0  | 0  | 0  | 0  | 0  | 1  | 1 + 128     |
| 0  | 0  | 0  | 0  | 0  | 1  | 0  | 2 + 128     |
| 0  | 0  | 0  | 0  | 0  | 1  | 1  | 3 + 128     |
| 0  | 0  | 0  | 0  | 1  | 0  | 0  | 4 + 128     |
| -  | -  | -  | -  | -  | -  | -  | -           |
| -  | -  | -  | -  | -  | -  | -  | -           |
| 0  | 1  | 1  | 1  | 1  | 1  | 1  | 64 + 128    |
| 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0 + 64      |
| 1  | 0  | 0  | 0  | 0  | 0  | 1  | 1 + 64      |
| 1  | 0  | 0  | 0  | 0  | 1  | 0  | 2 + 64      |
| 1  | 0  | 0  | 0  | 0  | 1  | 1  | 3 + 64      |
| 1  | 0  | 0  | 0  | 1  | 0  | 0  | 4 + 64      |
| 1  | -  | -  | -  | -  | -  | -  | -           |
| 1  | -  | -  | -  | -  | -  | -  | -           |
| 1  | 1  | 1  | 1  | 1  | 1  | 1  | 64 + 64     |

Uniden AM/FM/SSB Chassis

