

DTMF/MODEM GENERATOR

The PCD3312 is intended to provide the DTMF combinations required for tone dialling systems in telephone sets where the control functions are performed by a microcomputer with I²C interface. The device can interface directly with the serial bus. It uses a 3,58 MHz quartz crystal or a clock of the same frequency provided by the microcomputer. The device can also provide the MODEM frequencies according to CCITT (V21/23) and USA (B103/202) specifications.

Features

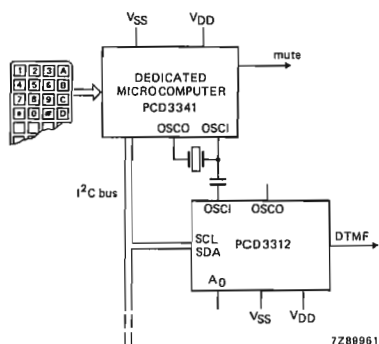
- stabilized output level
- low distortion by on-chip filtering (CEPT CS203 compatible)
- I²C bus compatible
- MODEM frequency generator
- single frequency generator

QUICK REFERENCE DATA

Operating supply voltage	typ. 3 V
Current consumption	
in operating mode	typ. 0,5 mA
in standby mode (oscillator on)	max. 200 μ A
in standby mode (oscillator off)	max. 10 μ A
Frequency accuracy	0,6%
Low-frequency level	typ. 153 mV
Pre-emphasis	(2,1 \pm 0,7) dB
Start-up time	typ. 4 ms

Encapsulation: SOT-97A (8 pin DIL plastic)

Application information



Purchase of Philips' I²C components conveys a license under the Philips' I²C patent to use the components in the I²C-system provided the system conforms to the I²C specifications defined by Philips.