

**Multistandard pulse/tone
dialler/ringer****PCD3331-1****PHILIPS INTERNATIONAL****60E D***T-75-07-07***FEATURES**

- Pulse and DTMF mixed mode dialling
- Last number redial up to 24 digits
- Flash and Earth register recall
- Access pause generation and termination
- Function keys for: Recall, LNR/access pause and Tone
- Strap functions:
 - Mark-to-space ratio (3 : 2 or 2 : 1)
 - Tone burst times
 - Access pause time
 - Pulse or DTMF (fixed setting)
 - Register recall Flash or Earth
- Ringer tone generation
- Ringer input frequency discriminator (23 to 54 Hz)
- Ringer sound selection via keypad

GENERAL DESCRIPTION

The PCD3331-1 is a mixed-mode multistandard dialler/ringer IC fabricated in a low threshold voltage CMOS technology and is a member of the Philips family of telecommunication ICs.

Dial parameters of this IC can be set by diode options to specific country requirements.

The on-chip tone generators are used for DTMF dialling and ringer melody generation.

A discriminator input enables the tone output only if a correct ringer frequency is applied.

ORDERING INFORMATION

EXTENDED TYPE NUMBER	PACKAGE			
	PINS	PIN POSITION	MATERIAL	CODE
PCD3331-1P	20	DIL	plastic	SOT146
PCD3331-1T	20	mini-pack	plastic	SO20; SOT163A

Multistandard pulse/tone dialler/ringer

PCD3331-1

PHILIPS INTERNATIONAL

60E D

PINNING

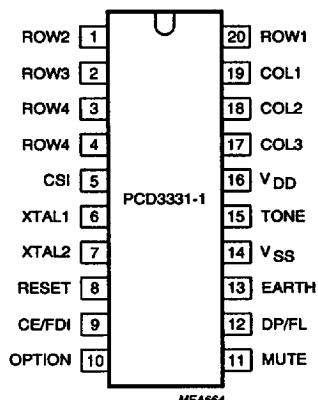


Fig.1 Pin configuration.

SYMBOL	PIN	DESCRIPTION
ROW2	1	row keyboard output
ROW3	2	row keyboard output
ROW4	3	row keyboard output
ROW5	4	row keyboard output
CSI	5	cradle detection input
XTAL1	6	oscillator input
XTAL2	7	oscillator output
RESET	8	reset input
CE/FDI	9	chip enable
OPTION	10	options selection
MUTE	11	mute output
DP/FL	12	pulse/recall output
EARTH	13	earth recall output
V _{SS}	14	negative supply
TONE	15	DTMF tones output
V _{DD}	16	positive supply
COL3	17	column keyboard input
COL2	18	column keyboard input
COL1	19	column keyboard input
ROW1	20	row keyboard output