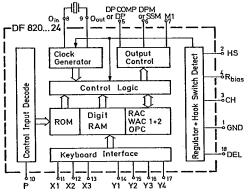
DF820, DF821, DF822, DF823, DF824 Loop-Disconnect Dialler Circuits (18-Pin Plastic package)

CMOS circuits intended for pushbutton telephones, repertory diallers, telex, mobile telephone, security and fire alert systems, emergency single number call makers.

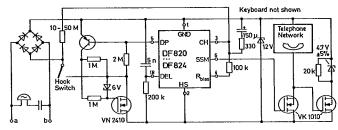
The **DF820** series of monolithic CMOS Loop-Disconnect Diallers each contain all the logic necessary to interface a standard single or double contact keyboard to a telephone system requiring loop-disconnect signalling. External component count is smaller compared with the predecessor types, DF320 series.

Features

- On-chip regulator
- Low standby dissipation 0.75 μW
- Low dynamic dissipation max. 450 μW
- On-chip oscillator uses low-cost 3.579545 MHz crystal
- On-chip terminations to inputs
- High input noise immunity
- Single and double contact keyboard interface
- Last number redial up to 24 digits
- Number entry without impulsing
- Dial and redial of internal PABX calls whilst maintaining last external call for redial later
- Indefinite digit storage
- Reset delay allows line breaks to be ignored
- Selectable impulsing mark/space ratios
- Selectable impulsing speed (DF823)
- Selectable interdigit pause (DF822 and DF823)
- Selectable post-impulsing pause (DF820, DF823, DF824)



DF820, DF821, DF822, DF823, DF824 Block Diagram



DF820, DF821, DF822, DF823, DF824 Application Circuit

DF320, DF322, DF323 Loop-Disconnect Dialler Circuits (18-Pin Plastic Package)

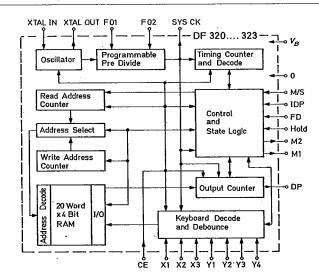
CMOS circuits intended for pushbutton telephones, repertory diallers, telex, mobile telephone, security and fire alert systems, emergency single number call makers.

Features

- Operation from 2.5 V to 5.5 V V_{DD} supply (may be unregulated)
- Low standby dissipation 3 μW typ at 3 V supply
- Low dynamic dissipation 540 μW typ at 3 V supply
- On-chip oscillator uses low-cost 3.579545 MHz crystal
- Power-on reset
- On-chip pull-up and pull-down terminations to inputs
- High input noise immunity: typ 45% of supply voltage
- Key input debounce circuitry
- Fully static storage up to 20 decimal digits
- Repeat of last number
- Selectable impulsing mark/space ratios of 2:1 or 3:2
- Selectable impulsing speeds of 10, 16, 20 and 932 Hz
- Selectable interdigital pause: 8 or 4 times impulsing period
- Hold facility to delay impulsing
- Fast data input to inhibit debounce circuitry

Description

The **DF320** series of monolithic CMOS Loop Disconnect Diallers each contain all the logic necessary to interface a standard double-contact keyboard to a telephone system requiring loop-disconnect signalling. External component count is minimized by the inclusion of an on-chip clock oscillator, high-impedance pull-down terminations to programming inputs as well as pull-up terminations to the keyboard giving direct interfacing.



DF320, DF322, DF323 Block Diagram