

### COMPLETE CT0 ANALOG CORDLESS CHIPSET

Philips fully supports all analog cordless standards with chipsets, discrete and module solutions, together with software/firmware, demo boards and comprehensive design-in/application support. Because our baseband modules/chipsets include some commonality in components and software, our CT0 solutions offer a low-risk investment for OEMs wishing to enter the analog cordless market. Demo/evaluation boards are available to cover all CT0 frequencies.

The low-frequency CT0 analog cordless standard is established in many countries at various frequencies around 50 MHz, including:

- France (26/41 MHz)
- Australia (30/39 MHz)
- The Netherlands and Spain (31/40 MHz)
- China, S. Korea, Taiwan, USA, Latin America (46/49 MHz)
- China (48/74 MHz).

As this market continues to grow (in terms of countries and increasing user density), our complete CT0 module/chipset system approach offers a low-cost solution with several competitive advantages. Our CT0-V3A chipset, for example, offers the following functionality:

- Auto-scan multiple-channel access (MCA) system automatically detects and selects a free channel for incoming and outgoing calls
- 1200 bps minimum shift keying (MSK) data transmission for high spectral efficiency and low-energy harmonics
- Supports up to seven handsets
- Call transfer between base unit and each handsets
- 20-bit digital security code, user programmable
- Advanced, patented power-saving scheme
- 10 days of stand-by with 270 mAh battery
- Two-way paging and intercom
- Speakerphone on base unit
- EEPROM for non-volatile storage of repertory memory and security code
- Independent repertory memory for base unit and each handset
- Tone/pulse mix-mode dialing
- Channel display in base unit
- Built-in 'test modes' to facilitate test alignment
- Jumper selectable country options (need to modify RF circuit accordingly).

Other recent additions to our range include the TEA1118 and TEA118A, which are derivatives of our TEA1112 speech/transmission ICs. These new ICs have transmit inputs which handle signals up to 1 V<sub>rms</sub> with less than 2% THD, and have low transmit gain (typically 11 dB). The TEA1118A incorporates DTMF, Mute and transmit Mute inputs, and is therefore particularly suitable for CT0.

Philips Semiconductors' CT0 chipset consists of the following ICs:

**TDA7052A/AT** - 1 Watt low voltage audio power amp with DC volume control

**SA676** - Low voltage mixer FM IF system

**SA576** - Low power compandor

**74V373D** - Port extender

**PCD3353** or **PCD3755** - DTMF dialler, EEPROM, RAM, microcontroller (handset)

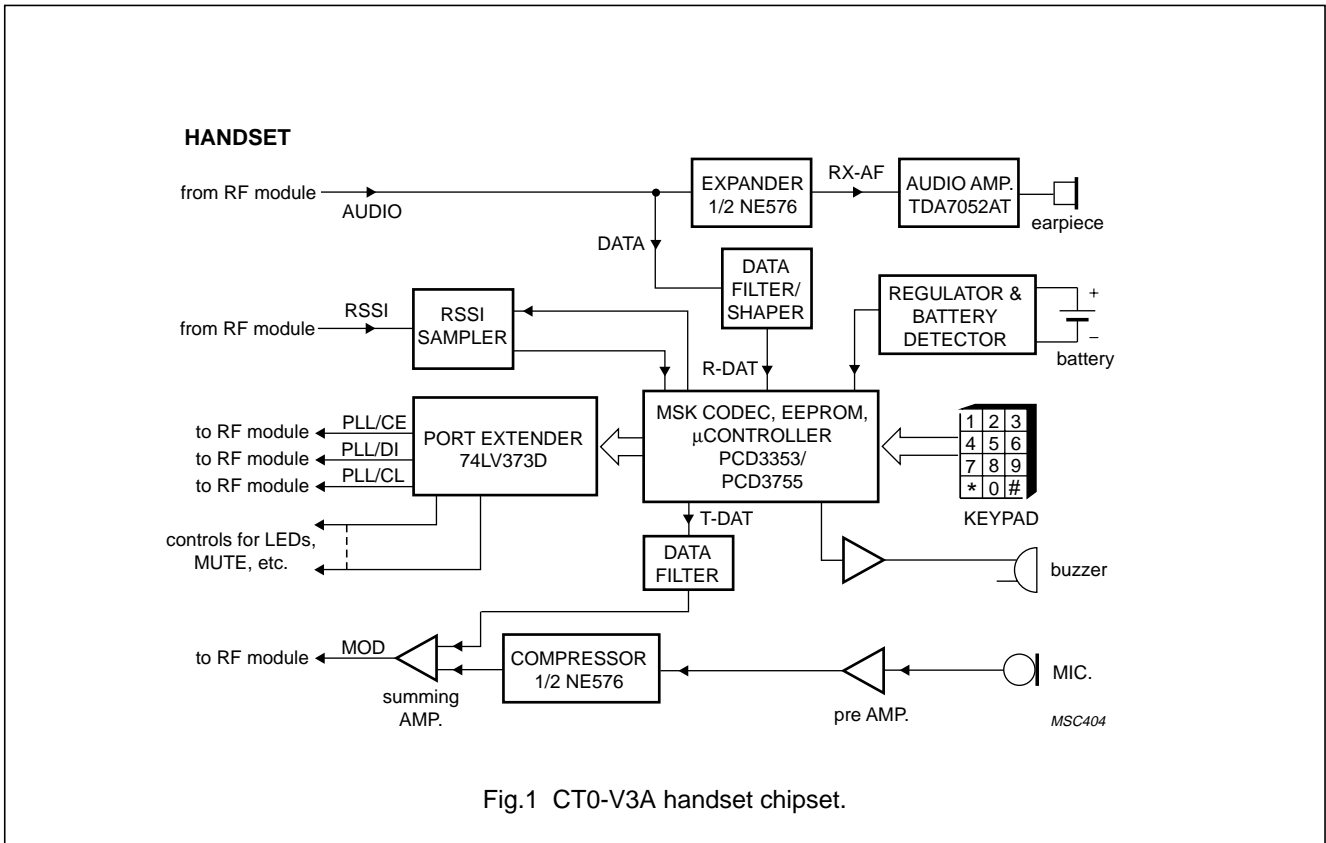
**PCD3354A** - DTMF dialler, EEPROM, RAM, microcontroller (base station)

**TEA1094** - Speaker phone amplifier (base station)

**TEA1062A** or **TEA1118/A** - Speech and line interfaces (base station)

**LC7152M** - Dual PLL synthesizer

**HEF4511** - Seven-segment driver



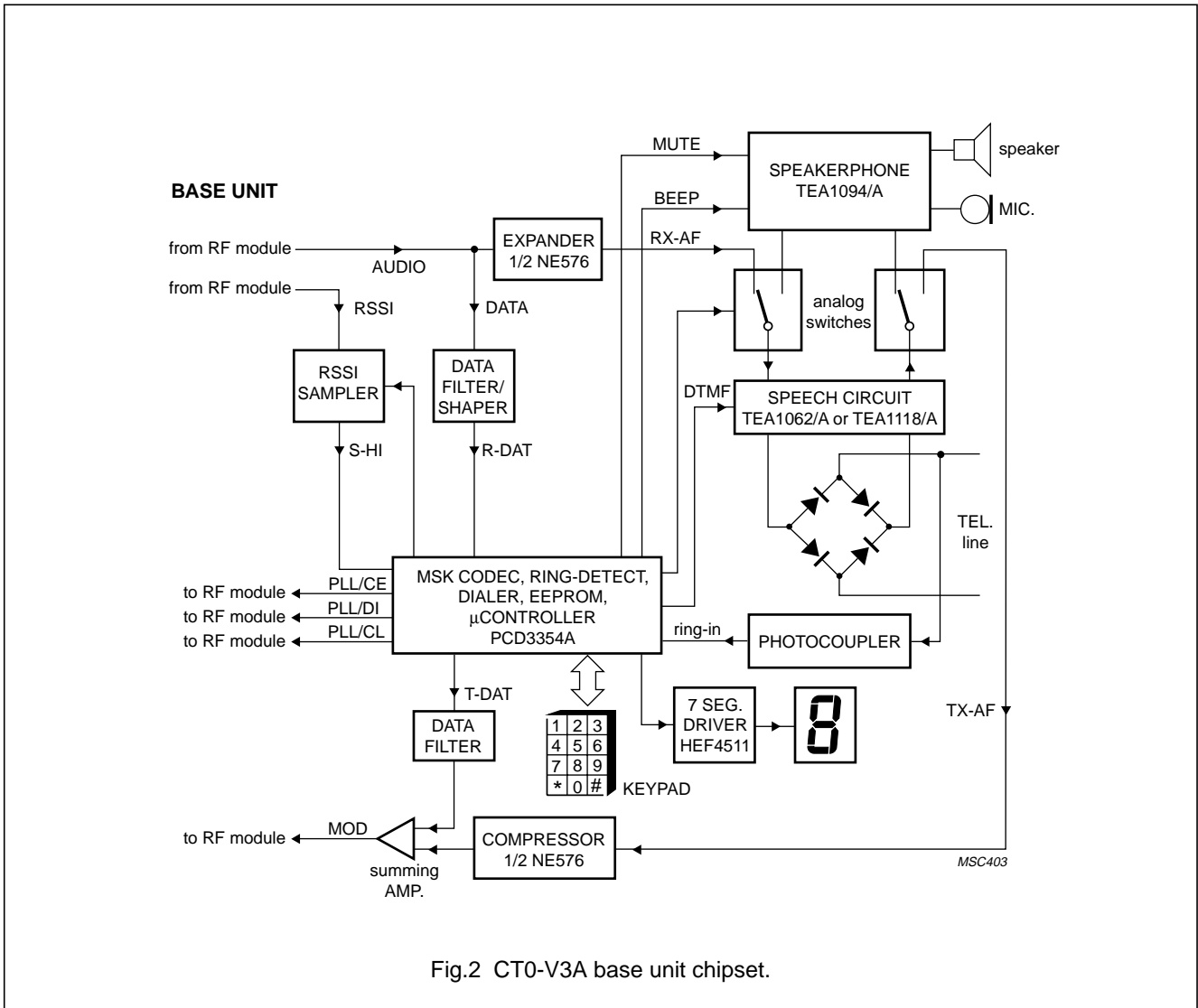


Fig.2 CT0-V3A base unit chipset.

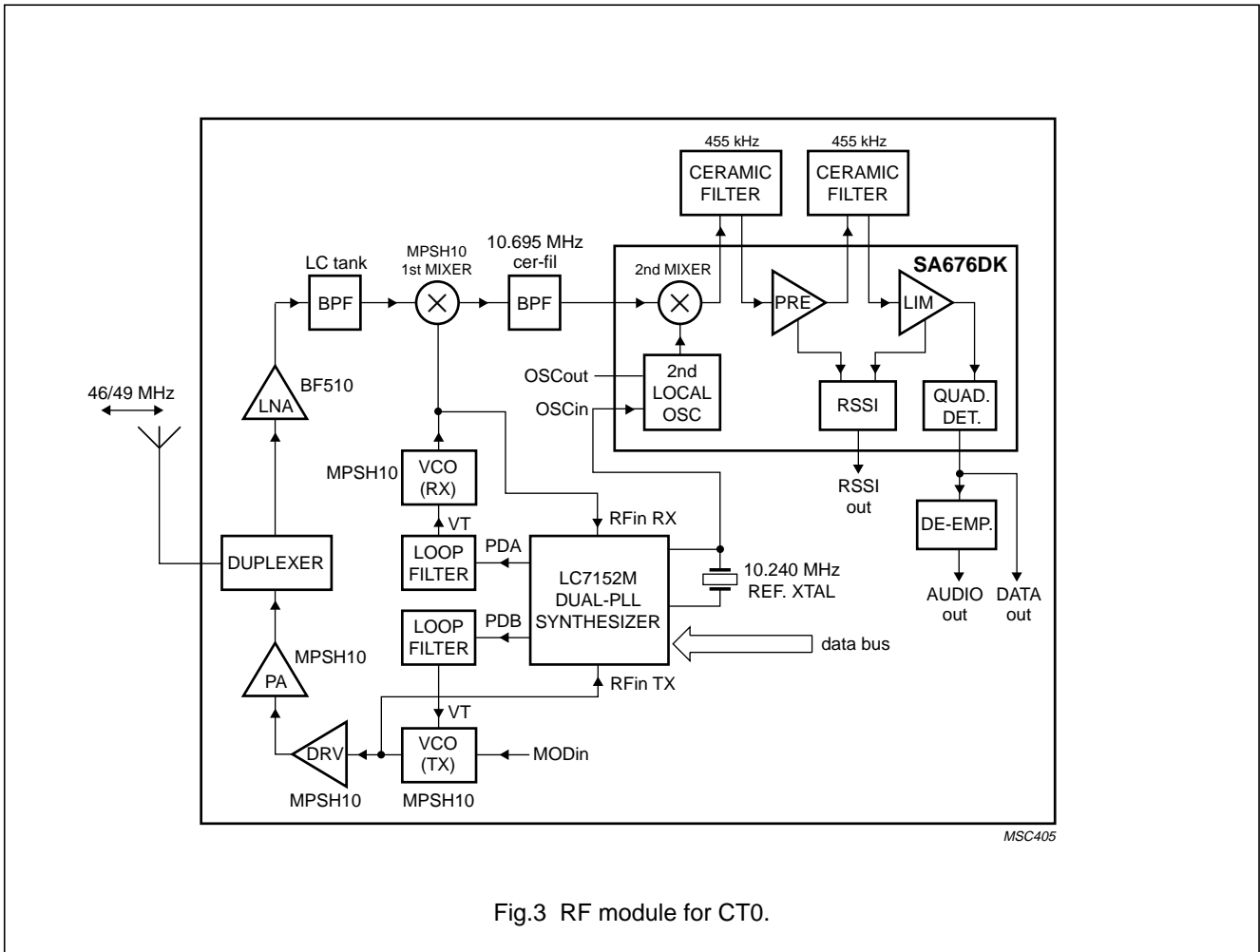


Fig.3 RF module for CT0.