

Line Interface Circuits

for DECT, CT, Modem, Fax etc.

Part Number	Features	Package
PBL 385 80	<ul style="list-style-type: none"> • For unisolated telephone line interface • Operating current range down to 5 mA • Operating voltage down to 2 	18-pin DIP 20-pin SO 16-pin SO
PBL 385 81	<ul style="list-style-type: none"> • For isolated telephone line interface • Operating current range down to 5 mA. • Operating voltage down to 2 V • Fix line loss compensation in the receiver 	18-pin DIP 20-pin SO 16-pin SO
PBL 385 82	<ul style="list-style-type: none"> • For isolated telephone line interface • Operating current range down to 5 mA • Operating voltage down to 2 V • Disconnectable line loss compensation in the receiver 	18-pin DIP 20-pin SO 16-pin SO

Voice controlled speakerphone circuits

Following applies to all speakerphone circuits. Special features are given separately for each circuit.

- Low current consumption
- Soft transmitter - receiver channel transition
- Background noise compensation with hold in the transmitter
- Low noise level
- Low external component count for function
- Generally built in line powered (when used with speech transmission circuit) loudspeaker amplifier, with mains powered option
- Direkt loudspeaker drive
- All circuits in bipolar process hence good RFI suppression

Part Number	Features	Package
PBL 3786	<ul style="list-style-type: none"> • Speaker phone and toneringer on a single chip using the same loudspeaker 	22-pin DIP 28-pin PLCC
PBL 3786/2	<ul style="list-style-type: none"> • Minimum function • Adjustable attenuation range: 0 to 50 dB 	22-pin DIP 28-pin PLCC
PBL 3880	<ul style="list-style-type: none"> • Accessible detector in and outputs • Switchable transmitter inputs for handsfree and handset to realize group-listening mode • AGC in receiver channel • Adjustable attenuation range: 0 to 50 dB 	28-pin DIP 28-pin PLCC
PBL 3881	<ul style="list-style-type: none"> • Pin to pin replacement for PBL 3786/2 	22-pin DIP 28-pin PLCC 24-pin SO

PBL 388 11	<ul style="list-style-type: none"> • 3W power amplifier with external transistors • Selectable attenuation range: 25 or 50 dB 	22-pin DIP 24-pin SO
PBL 388 12	<ul style="list-style-type: none"> • Voice controlled switch only • Selectable attenuation range: 25 or 50 dB 	16-pin SO
PBL 388 13	<ul style="list-style-type: none"> • DC or AC-controlled loudspeaker volume • Possible AGC or softclipping in the receiving channel • Selectable attenuation range: 25 or 50 dB 	24-pin DIP 24-pin SO
PBL 388 14	<ul style="list-style-type: none"> • Mains or battery powered voice controlled switch circuit for answering machines, mobile phone hands free in car applications and hands free key-system telephones with loudspeaker amplifier • High output power, up to 600 mW • Selectable attenuation range: 25 or 50 dB • 24-pin versions allow 3W power amplifier with external transistors • 24-pin versions allow a DC- controlled loudspeaker volume 	20-pin SO 24-pin SO 24-pin DIP

Preferred for new design.

Telephone circuit test boards

Testboard number	Integrated circuits	Comments
TB108T	PBL 3726/16 + PBL 3786 + PBD 3535	Complete telephone
TB123T	PBL 3781/02 + S 2570 -1 + TMS 1531	Complete telephone
TB125T	PBL 3852 + PBL 3881 + W91414 + ML 8205	Complete telephone
TB126T	PBL 3783 + S 2570 -1 + TMS 1531	Complete telephone
TB127T	PBL 3853	Complete telephone
TB129T	PBL 3852 + W91414 + ML 8205	Complete telephone
TB133T	PBL 385 41 + W91414 + ML 8205	Complete telephone