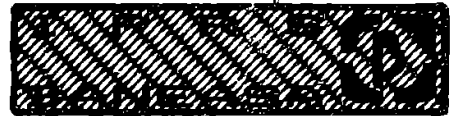


**LINEAR  
INTEGRATED  
CIRCUITS  
- INDUSTRIAL -**



\$ **PUTB 0010**  
\$ **PUTB 0011**  
**MONOLITHIC INTEGRATED SUBSCRIBER  
LINE INTERFACE CIRCUITS (SLIC)**

The PUTB 0010 and PUTB 0011 are monolithic integrated circuits designed for use in telephone electronic central offices. The difference between PUTB 0010 and PUTB 0011 consists of a minor change in pin assignment. The linear section comprises a 2-to-4 wire converter, a receive buffer and emission booster. Gain is externally controlled by a semipot; loop current is limited and longitudinal induction is suppressed. The digital section comprises a subscriber line sensing pin that controls the bias circuitry reducing standby power when subscriber line is on hook or short-circuited; power down state is output TTL compatible. The Chip Select and Read / Write pins are TTL/CMOS compatible inputs, while Data is a three-state input/output pin, TTL/CMOS compatible, allowing direct interfacing on the control system data bus. There are two open collector outputs, B1 and B2, used to command two external high-voltage transistors driving the phone ring bell. B1 and B2 are controlled by the CS, RTW and D pins.

**Features**

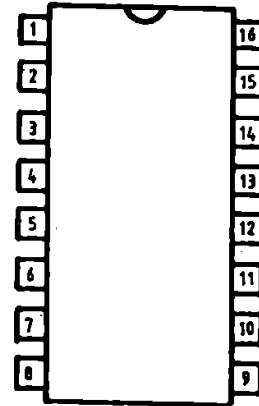
- Operating temperature .....	-25 ... +70 °C
- Storage temperature .....	-25 ... +125 °C
- Supply voltage .....	max. +/-12 V
- Frequency response ( 200 Hz ... 4 kHz ) .....	max. +/-0.5 dB
- Transhybrid rejection ( f = 1 kHz ) .....	min. 30 dB
- Longitudinal rejection .....	min. 45 dB
- Output capability B1, B2 .....	min. 40 mA

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\$ Preliminary data  
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PUTB 0010 ; PUTB 0011 (cont.)

**PUTB 0010**

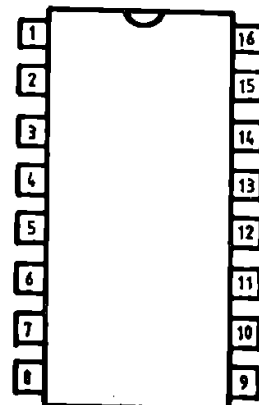
- | 1. Open collector B2
- | 2. GND-linear+digital
- | 3. Receive input
- | 4. L1-telephone line
- | 5. L2-telephone line
- | 6. CF-frequency compensation
- | 7. Emission output
- | 8. VA- negative power supply (linear)
- | 9. PD-power down TTL output
- | 10. VA+ positive power supply (linear)
- | 11. VD-positive power supply (digital)
- | 12. S-subscriber line sensor
- | 13. CS-chip select
- | 14. R/W-Read/Write
- | 15. D-Data
- | 16. Open collector B1



PACKAGE MP-117 / TOP VIEW

**PUTB 0011**

- | 1. GND-digital
- | 2. GND-linear
- | 3. Receive input
- | 4. L1-telephone line
- | 5. L2-telephone line
- | 6. CF-frequency compensation
- | 7. Emission output
- | 8. VA- negative power supply (linear)
- | 9. PD-power down TTL output
- | 10. VA+ positive power supply (linear)
- | 11. VD-positive power supply (digital)
- | 12. S-subscriber line sensor
- | 13. CS-chip select
- | 14. R/W-Read/Write
- | 15. D-Data
- | 16. Open collector B1



PACKAGE MP-117 / TOP VIEW