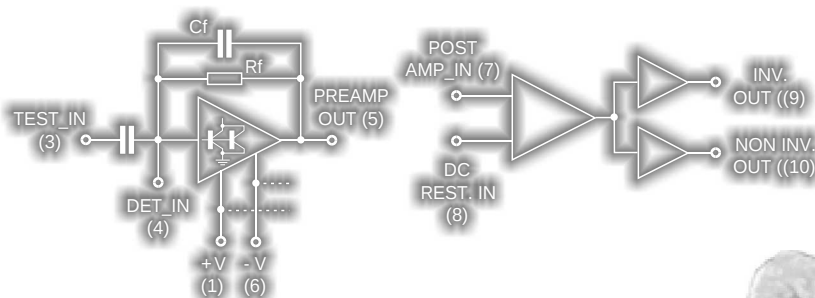


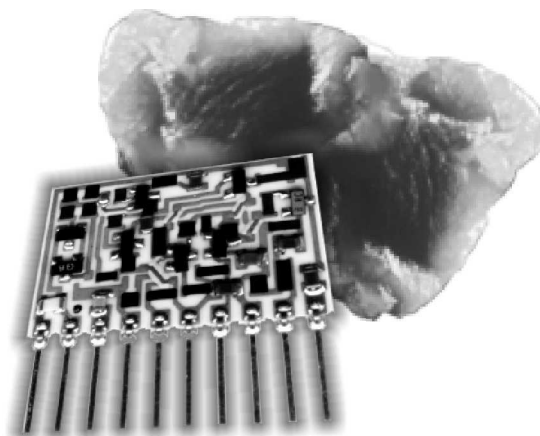
# Low Noise BJT Input Preamplifier

1 TCD-A



## Pin-out

- 1) +V
- 2) GROUND
- 3) TEST INPUT
- 4) DETECTOR INPUT
- 5) PREAMPLIFIER OUTPUT
- 6) -V
- 7) POST AMPLIFIER INPUT
- 8) DC RESTORED INPUT
- 9) INVERTING OUTPUT
- 10) NON INVERTING OUTPUT



Information subject to change without notice

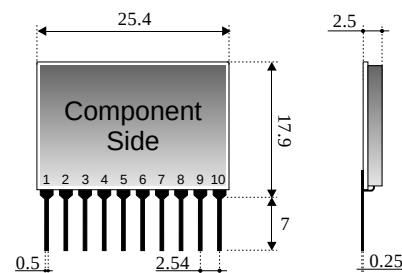
## Description

Single channel, low noise BJT input preamplifier.  
 High counting rate capability.  
 Adjustable conversion factor and differential output.  
 Very low power consumption.  
 Attractive for long drive of twisted pair .  
 Very low cost system .

## Descrizione

Preamplificatore a singolo canale con ingresso a BJT di basso rumore.  
 Alta velocità di conteggio.  
 Fattore di conversione regolabile ed uscite differenziate.  
 Sistema a basso costo e basso consumo.

## Mechanical Dimensions



## Technical Specification

Ta = 25 °C

| CHARACTERISTICS |                                                     | MIN | TYP  | MAX  | UNIT |
|-----------------|-----------------------------------------------------|-----|------|------|------|
| V <sub>s</sub>  | Supply Voltage • Alimentazione                      | -6  |      | +6   | Vdc  |
| P <sub>s</sub>  | Power Consumption • Consumo                         |     | 140  |      | mW   |
| F <sub>c</sub>  | Conversion Factor • Fattore di Conversione          |     | 0.2  |      | V/pC |
| N <sub>i</sub>  | Noise • Rumore                                      |     |      | 1400 | e    |
| Z <sub>i</sub>  | Input Impedance • Impedenza d'ingresso              |     | 15   |      | Ω    |
| T <sub>r</sub>  | Rise Time • Tempo di Risalita                       |     | 5    |      | nS   |
| S <sub>o</sub>  | Output Swing • Uscita                               |     | ± 80 |      | mV   |
| T <sub>op</sub> | Operating temperature range • Temperatura di lavoro | -20 |      | +80  | °C   |