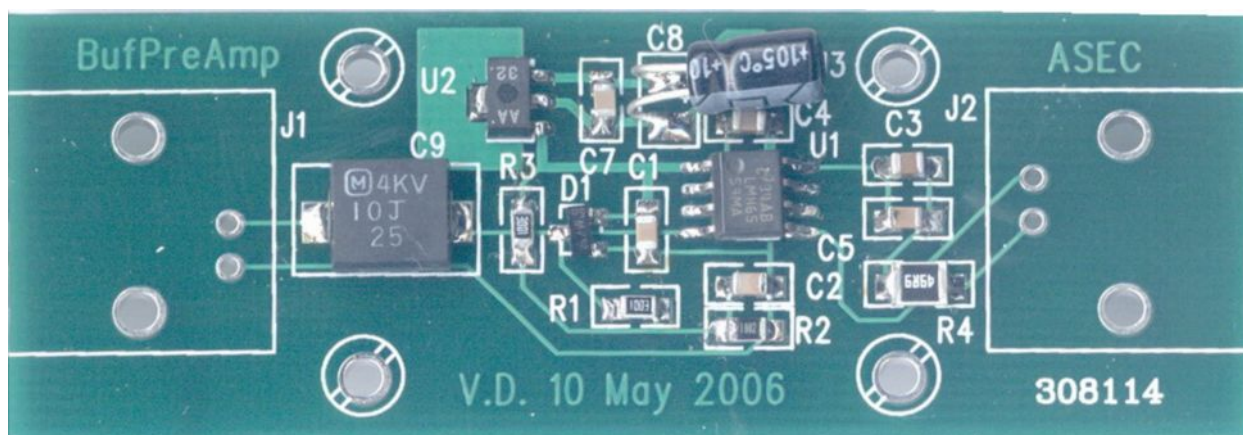


The Buffer Preamplifier module – BufPreAmp

The Buffer Preamplifier module is designed to be used with photomultipliers and to be mounted inside its base cover.



For a short distances ($\leq 20\text{m}$) between the photomultiplier and the counting electronic and low pulse frequencies ($< 10\text{ kHz}$, the case of the astroparticle detectors) it can be used without matching 50 Ohm resistor on the receiver side, thus increasing twice the maximal signal amplitude.

The main parameters:

- Gain – 1
- Small signal bandwidth – 1750 MHz
- Slew rate – 4580 V/us
- Input impedance – 100k
- Output impedance – 50 Ohm
- Maximal output pulse amplitude ($R_{\text{load}} > 1\text{k}$) – 8V
- Maximal output pulse amplitude ($R_{\text{load}} = 50\text{ Ohm}$) – 8V
- Power supply voltage – +12V – +15V unregulated
- Supply current $\leq 80\text{mA}$