

B2 ambient temperature photomultiplier housings

1 B2 series

The B2 housing series is designed for use with end-window pmts, of 51 mm diameter, or smaller when ordered with adaptors.

It offers:

- a light-tight enclosure including socket, voltage divider and connectors
- electrostatic and magnetic screening
- high quality insulators and components to ensure optimum performance

The socket and voltage divider in the housing are chosen to suit the particular pmt being used, which must be specified when ordering. Unless otherwise stated, or requested, the voltage divider will have the standard configuration indicated in the corresponding pmt data sheet, and the value of 'R' will be 330kΩ

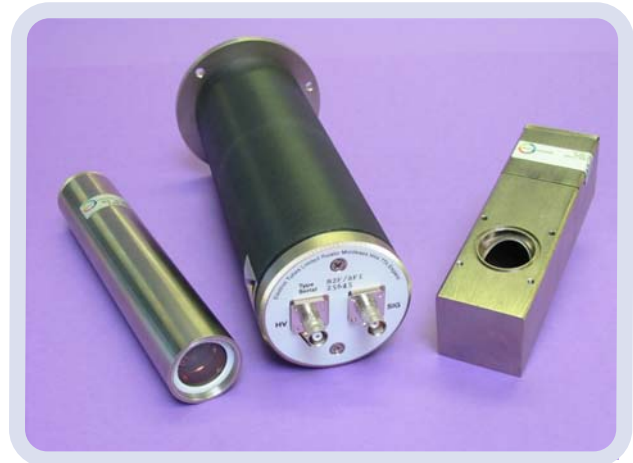
The default HV polarity is negative, so that the output is suitable for analogue or pulsed signal applications. However, for applications where the lowest noise is important it is recommended that positive HV be used. In this latter case, internal 100kΩ anode load resistor is incorporated and the signal taken out via a coupling capacitor. This configuration is only suitable for pulsed applications, such as photon counting.

Housings are available with or without front mounting flange. RFI shielded versions are available for use in noisy environments and/or for very low signal conditions.

The long barrel option is necessary for pmts having a length of 155 mm or longer. Special versions are available for use with the ETEL 9422 series

2 B2 features

- accommodates 30, 38 or 51 mm diameter end-window photomultipliers
- flanged version, B2F, with integral 'O' ring, and light-tight seal
- the housing will accept 52.25 mm diameter filters of up to 2.5 mm thickness
- B2FV versions include vacuum adaptors for coupling to vacuum systems



3 B2 specification

signal connector	BNC
HV connector	MHV (SHV optional)
divider R value	330kΩ (other values available)
HV polarity	-HV (+ve optional)
weight	1200g

