QL30 ambient temperature photomultiplier housings



QL30 series

The QL30 ambient housing is available for use with most end-window photomultipliers up to 30mm diameter.

It offers:

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

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 $330k\Omega$

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 $100k\Omega$ 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.

Please note that some pmt types may also require a long barrel.

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.

QL30 features

- internally threaded front end
- combined electrostatic and magnetic shielding
- quick-release base assembly
- flanged version, QL30F, with integral 'O' ring, and light-tight seal
- the QL30FV version includes vacuum adaptors for coupling to vacuum systems

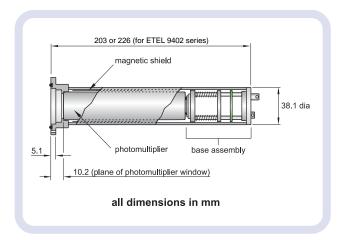
QL30 specification

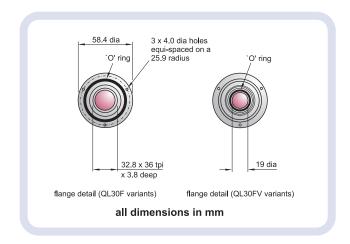
signal connector **HV** connector divider R value **HV** polarity

BNC MHV (SHV optional) 330k Ω (other values available) - HV (+ve optional) (power supply can be integrated)

weight







ET Enterprises Limited 45 Riverside Way Uxbridge UB8 2YF United Kingdom tel: +44 (0) 1895 200880 fax: +44 (0) 1895 270873 e-mail: sales@et-enterprises.com web site: www.et-enterprises.com web site: www.electrontubes.com

ADIT Electron Tubes 300 Crane Street Sweetwater TX 79556 USA tel: (325) 235 1418 toll free: (800) 399 4557 fax: (325) 235 2872 e-mail: sales@electrontubes.com

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