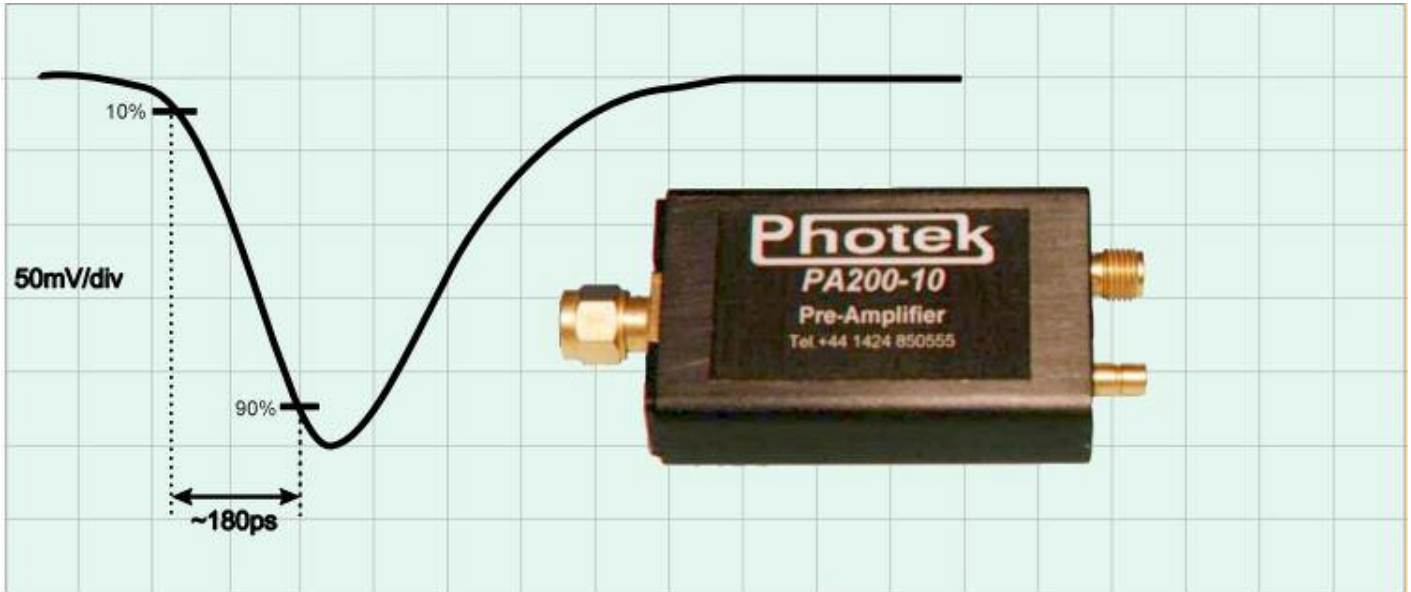


# PA200-10 PREAMPLIFIER



## FEATURES

- 3 dB Bandwidth 2 GHz (typical)
- Rise time 180 ps
- Jitter Less than 10 ps
- Gain 20 dB non-inverting
- Output 50 Ohm SMA (450 mV max)

## APPLICATIONS INCLUDE

- Pre-amplifier for photomultipliers and time of flight detectors
- Takes timing pulses from vacuum compatible detectors, IPD's and other Photek photon imaging detectors.



## DESCRIPTION

The PA200-10 pre-amplifier module is designed to be directly mounted on the output of all current Photek photomultiplier and time of flight detectors.

Detectors using two or more micro channel plates produce a small fast electrical pulse for each photon or particle passing through the detector. The PA200-10 pre-amplifier is designed to be used in close conjunction with micro-channel plate detectors (image intensifiers, vacuum imaging devices, time of flight detectors, photomultipliers etc) to amplify these timing pulses for connection by 50 ohm cable to oscilloscopes and other fast timing electronics.

For devices like vacuum imagers, image intensifiers and IPD, the PA200-10 should be used with an appropriate high voltage decoupling network which can also be provided by Photek.

The bandwidth of other timing electronics should be specified to enable Photek to optimise and match the PA200-10 for each application.

## Connectors

Input 50 Ohm SMA (200 mV max)  
Power +12V @ 20 mA (SMB)

## Dimensions

Length 73 mm (53 mm excluding connectors)  
Width 30 mm  
Height 12 mm

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