

HFAM - 26

8 Channel GHz Wide Band Amplifier with Overload Detection for PMTs or MCPs

- Cutoff frequency 1.6 GHz
- Gain 26 dB
- Input and Output Impedance 50 Ω
- Low Frequency Limit < 5kHz
- Input Protection
- Monitoring of Detector Current / Overload Warning

The HFAM series amplifiers are used to amplify the output signals of high speed PMTs or MCPs, especially in single photon counting applications. The gain of the amplifier allows the detector to be operated at reduced signal current which extends the lifetime of MCP tubes. Furthermore, the amplifier gain helps to reduce noise pickup in long signal cables. The amplifiers have an input protection circuit which avoids damage by overload or by charged signal cables. Furthermore, a LED indicates an overload condition if the average detector currents of one or more channels exceed a specified value.

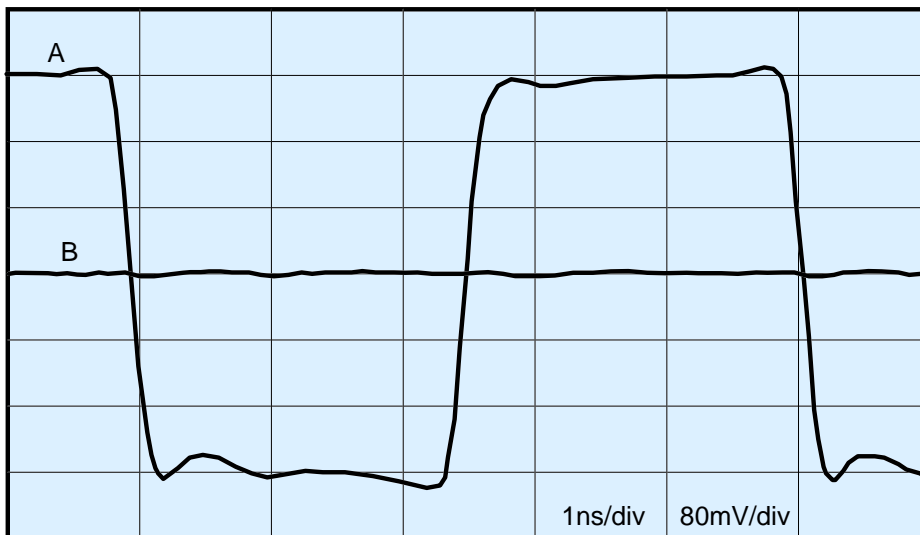


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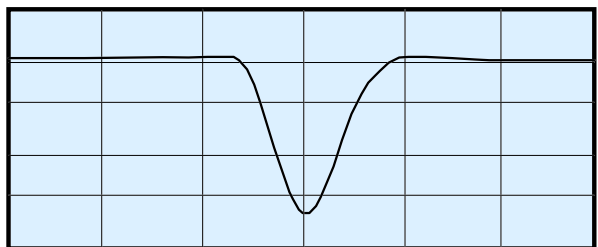

intelligent
measurement
and
control systems

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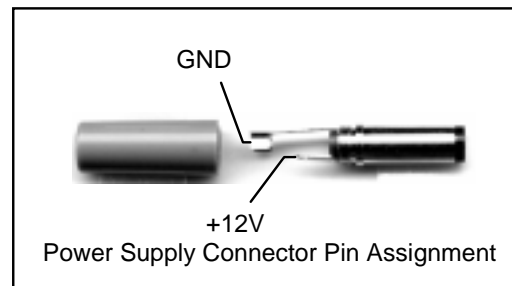
Input / Output Impedance	50 Ω
Connectors	SMA
Gain	26 dB, non inverting
Bandwidth	1.6 GHz
Low Cutoff Frequency	5 kHz
Max. Linear Output Voltage	1V
Noise Figure	5 dB
Detector Overload Current (I_{\max} , please specify)	0.1 μ A (for MCPs) or 10 μ A (for PMTs)
Detector Overload Warning	red LED at I_{\max}
Current Warning Response Time	1 ms
Power Supply Voltage	+12 ... +15 V
Power Supply Current	typ. 320 mA
Dimensions	110 x 60 x 30 mm



Step Response (A)
and Crosstalk
between Adjacent
Channels (B)



HFAM Impulse Response



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