



VERY FAST TIMING AMPLIFIER

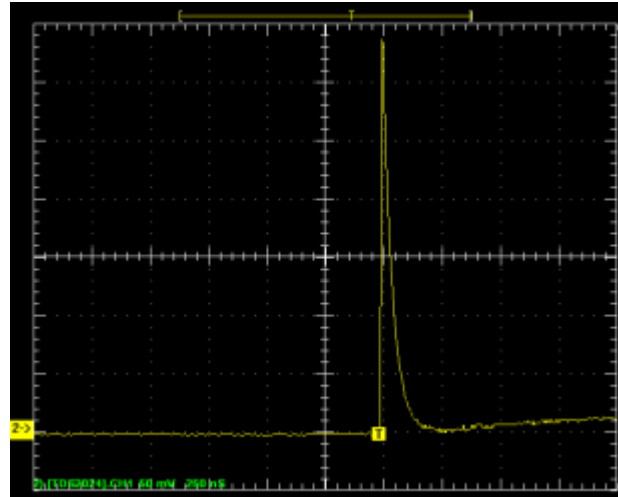
Introduction:

FTA001 fast timing amplifier can amplify fast rising edge signals of 100ps to 1ns rise time voltage pulse into 50 ohms impedance forming +/-200uV to +/-200mV maximum input signal strength. FTA001 can be used for MCP / CEM / PMT / Faraday Cup / APD / Photodiode fast timing signals. Total charge in the pulse need to be about 1pC on 2pF input capacitor and with 50 ohm termination it forms a 100ps RC time constant. FTA001 Timing Amplifier has fixed voltage gain of x5. Amplifiers can be cascaded for gain of x5, x25, and x125 using 1, 2 or 3 amplifiers.

Applications:

1. TOF Start Stop Time Digitizer
2. Position Sensitive Imaging
3. Photon Counting

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FTA001 Amplifier output shown inverted has 1ns rise time pulse

Specifications: Model No. FTA001

Description

Amplifier Details

- Input Voltage ----- : +/-200uV to +/-200mV (normally a negative input pulse)
- Input Pulse Rise Time ----- : 100ps to 5ns
- Input Pulsethwidth ----- : 2ns to 20ns
- Pulse Pair Resolution ----- : 10ns for <2ns pulsethwidth <10pF input total capacitance
- Input Connectors ----- : BNC 50 Ohms on front panel
- Input Capacitance ----- : <10pF
- Input Impedance ----- : 50 Ohms resistive
- Amplifier Voltage Gain ----- : X5 (single), cascaded 2 = X25, cascaded 3 = x125
- Output Polarity ----- : Non-inverted
- Output Impedance ----- : 50 Ohms resistive
- Output Connector ----- : BNC 50 Ohms on back panel
- External Power ----- : +/-15V 300mA <15mV peak to peak noise 0.1% regulated
- Power Connector ----- : 3-pin metal connector on back panel
- Instrument Case FTA001 / FTACFD50 ----- : 50mm x 100mm x 160mm

Optional Accessories

- 5030BNCPE ----- : 30cm long BNC cable PE insulated RG58 type (Rs.1000)
- 50100BNCPE ----- : 100cm long BNC cable PE insulated RG58 type (Rs.2000)
- 5030BNCPTFE ----- : 30cm long BNC cable PTFE insulated RG58 type (Rs.5000)
- 50100BNCPTFE ----- : 100cm long BNC cable PTFE insulated RG58 type (Rs.9000)
- PS15D10L ----- : +/-15V 300mA 230V 50Hz AC-DC Power Supply (Rs.50000)
- C300RFFPC ----- : 3m shielded and RF filtered DC Power Cable (Rs.5000)
- FTACFD50 ----- : CFD Amplifier for 50ns NIM fast walk free pulse (Rs.499998)

Price FTA001 ----- : Rs.399998.00 plus tax

Warranty ----- : 12 months free repair at factory

Details

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