

#### **5A48 50 MHz DUAL-TRACE** AMPI IFIFR

The 5A48 is a dual-trace, 50 MHz plug-in amplifier with five operating modes used in 5400 Series mainframes. The 5A48 features selectable trigger source and crt readout.

### **CHARACTERISTICS**

**Bandwidth and Rise Time (-3 dB) -** 50 MHz and 7 ns at 5 mV to 10 V/div; 25 MHz and 14 ns at 1 mV and 2 mV/div.

**Deflection Factor and Accuracy**  $- \le 3\%$  at 5 mV to 10 V/div, 15°C to 35°C;  $\leq$  4% at 5 mV to 10 V/div, 0°C to  $50^{\circ}$ C:  $\leq 5\%$  at 1 mV and 2 mV/div.

input R and C - 1 M $\Omega$ .  $\approx$ 24 pF

Maximum Input Voltage - Dc Coupled: 250 V (dc + peak ac). Ac Coupled: 500 V (dc + peak ac). 500 V p-p. Display Modes - CH 1, CH 2, CH 2 Invert, Add, Alt. Chop.

# 5B42/5B40 HORIZONTAL TIME **BASES**

The 5B42/5B40 Time Bases are designed for use in 5400 Series mainframes. They feature sweep rates from 10 ns to 5 s/div and crt readout of the sweep rate selected. Trigger coupling modes included are: ac, dc, HF reject, and LF reject. There is even an external amplifier input for X-Y measurements. The 5B42 also features delayed-sweep rates up to 10 ns/div. The delayed sweep feature allows very accurate (≈1%) timing measurements to be made.

#### CHARACTERISTICS

Horizontal Sweep Rate - 0.1 µs to 0.5 s/div, 10 ns/div (X10).

Sweep Accuracy -

Time/Div	Unmagnified		Magnifled	
	15°C to 35°C	0°C to 50°C	15°C to 35°C	0°C to 50°C
0.5 µs to 1 s/div	3%	4%	4%	5.5%
0.1 µs, 0.2 µs. 2 s. and 5 s/div	4%	5%	5%	6.5%

Ext Horizontal Input - Deflection Factor: 50 mV/div ±3%. Input R and C: 1 MΩ, ≈24 pF. Bandwidth: 2 MHz.

#### **DELAYED SWEEP (5B42)**

Differential Time Measurement Accuracy - ≤1% + 0.2% of full scale from 1 µs to 0.5 s delay time.

Jitter - ≤ 0.05% of one division of delayed sweep selected.

**Multiplier Range** - 0.2 to 10 times the time/div setting







5B40

#### Trigger Sensitivity -

Mainframe	Frequency	Internal	External
5400	dc to	0.4 div*1	60 mV*1
	10 MHz	0.4 div*2	100 mV*2
5400	10 MHz	1.0 div*1	150 mV**
	to 60 MHz	1.0 div*2	400 mV*²
5100	dc to 2 <b>M</b> Hz	0.4 div*2	100 mV*2

<sup>1 5</sup>B40 only.

Trigger Operating Modes - Auto, Norm, Single Sweep

Triager Coupling - Ac. dc. LF REJ (Atten below 2.5 kHz), HF REJ (Atten above 50 kHz).

Ext. Trigger Level Range -± 1.5 V (5B40) and ±2.5 V (5B42).

# High Performance Amplifier and Time Bases.

# 5A48

- DC to 50 MHz Bandwidth
- 1 mV to 10 V/div Sensitivity
- · Add and Invert Modes

# ORDERING INFORMATION

Dual-Trace Amplifier Includes: Instruction/Service manual (070-1450-00), 1 year warranty

\$1,595

# 5B42/5B40

- Single Sweep
- 10 ns to 5 s/div Sweep Rates
- Triggering to 50 MHz
- HF/LF Reject Coupling
- External Horizontal Amplifier
- Delayed Sweep (5B42)

#### ORDERING INFORMATION

# **5B42**

Dual Time Base Includes: Instruction/Service manual (070-1447-00), 1 year warranty 5840

Single Time Base Includes: Instruction/Service manual (070-1742-00), 1 year warranty

\$1,195

\$1,995

<sup>12 5</sup>B42 only.