Mainframes	Features	7A29	7A19	7824	7A26	7A18A	7A18	7A22
· · · · · ·	:	Widest bandwidth, single trace	High bandwidtth, 50 Ω input	Dual trace, 50 Ω	Dual trace	Dual trace	Differential dc offset, 20,000:1 CMRR	DC coupled, differential, high-gain
	Deflection Factor (min)	10mV/dlv	10 mV/div	5mV/div	5 mV/div	5 mV/div	1 mV/div	10µV/div
	Accuracy*1	2%	2%	2%	2%	2%	1.5%	3%
<b>104</b>	Bandwidth	1 GHz	600 MHz	400 MHz	200 MHz	100 MHz	105 MHz	1 MHz±10%
01035°C)	Rise Time's	0.35 ns	0.6 ns	0.9 ns	1.8 ns	3.5 ns	3.4 ns	350 ns±9%
<b>7904A or</b>	Bandwidth	500 MHz	500 MHz	350 MHz	200 MHz	100 MHz	105 MHz	1 MHz±10%
<b>7934</b>	Rise Time <sup>*3</sup>	0.7 ns <sup>*2</sup>	0.8 ns	1.0 ns	1.8 ns	3.5 ns	3.4 ns	350 ns±9%
0 to 30°C)	SIG OUT	300 MHz	300 MHz	140 MHz	140 MHz	90 MHz	100 MHz	1 MHz±10%
17844	Bandwidth	400 MHz	400 MHz	300 MHz	180 MHz	75 MHz	100 MHz	1 MHz±10%
0 to 35°C)	Rise Time's	0,9 ps	0.9 ns	1.2 / <b>3</b>	1,9 ns	4.7 ns	3,5 ns	350 ns±9%
<b>7800</b>	Bandwidth	100 MHz	100 MHz	100 MHz	100 MHz	75 MHz	75 MHz	1 MHz±10%
<b>Series</b>	Rise Time <sup>*3</sup>	3.5 ns	3.5 ns	3.5 ns	3.5 ns	4.7 ns	4.8 ns	350 ns±9%
0 to 50°C)	SIG OUT	65 MHz	65 MHz	60 MHz	60 MHz	50 MHz	55 MHz	1 MHz±10%

- \*1 Accuracy percentages apply to all deflection factors. Accuracy is without probes.
- \*2 R7903 with 7A29; rise time is 0.8 ns.
- '3 Rise time is calculated from the bandwidth.

7000 SERIES TIME BASE SELECTION GUIDE							
Performance Feature	<b>- 10</b> 1:	Total 1	i insili	7853A			
Single-trace time base	yes	no	yes	no			
Dual-trace time base	1 1 100	. yes	00				
With mixed sweep	no	no	no	yes			
IV Sync Triogering	no l	e de la companya de l	A COLUMN TO	yes (Opt. 05)			
Can also use as delayed time base	yes	yes	yes	no			
Delaying/ADelay sweep	yes	77 127 100 137 137		The state of			

7000 SERIES TIME BASE/MAINFRAME RECOMMENDATION						
Maintrome 1	11.17.17.10.47.15.5	13 1892A	7885	7B53A		
7104	yes	yes	no	no		
7904A		yes	7 + 1 - 1 <b>78</b> 3	, no in the last		
R7844	yes	yes	· yes	no		
7934	1	yes yes	yes	1.10		
7603/R7603	no	no	no	yes		
7623B/R7623B	1 100	no .		yes		

## **7D20 INFORMATION**

The 7D20 is a GPIB programmable plug-in compatible with all 7000 Series mainframes except the 7104. With a 7000 Series mainframe, it creates a fully programmable, digitizing oscilloscope.

The 7D20 offers signal averaging to reduce uncorrelated noise, envelope displays to compare dynamic characteristics of changing signals, pretrigger for viewing prior to the trigger event, storage of six independent waveforms plus a reference waveform, cursors for more accurate two-dot measurements, and user prompting menu displays to improve user-interface effectiveness.

A 40 MHz maximum sampling rate provides approximately 10 MHz single-shot bandwidth and up to 70 MHz repetitive signal bandwidth.

Since the 7D20 is completely programmable, fully automated measurement and testing is possible. Interactive test procedures, text messages, waveforms, and front-panel set-ups may be transmitted and received from the 7D20 to a controller or computer.

## ORDERING INFORMATION

7A29 AMPLIFIER
7A29 – 1 GHz Amplifier \$3,999
Includes:
Instruction Manual (070-2320-00).
Opt. 04 – Variable Delay Line +\$600
7A19 AMPLIFIER

7A19 – 600 MHz Amplifier \$3,995 Includes: Instruction Manual (070-2129-00).

 Opt. 04 – Variable Delay Line
 +\$550

 7A24 AMPLIFIER
 7A24 – 400 MHz Amplifier
 \$3,550

Includes: Instruction Manual (070-1485-00).

7A26 AMPLIFIER
7A26 - 200 MHz Amplifier \$3,450
Includes:
Instruction Manual (070-1484-01).

7A18A AMPLIFIER
7A18A – 100 MHz Amplifier \$2,225
Includes:
Instruction Manual (070-4329-00).

Opt. 06 – DC Offset +\$275 isolator A6902B – See page 328.

7A13 AMPLIFIER
7A13 Differential Comparator
Amplifier \$4,795
Includes:
Instruction Manual (070-1948-00).
Isolator A69028 — See page 328. \$2,200
P6135A — See page 70. \$695

7A22 AMPLIFIER
7A22 Differential Amplifier \$2,785
Includes:
Instruction Manual (070-0931-00).

P6135A – See pages 70. \$695

7815 \( \text{Delaying Time Base} \) \$3,775 Includes: Instruction Manual (070-2318-00).

7892A TIME BASE
7892A Dual Time Base \$5,100
Includes:
Instruction Manual (070-1751-02).

7885 TIME BASE
7885 ∆Delaying Time Base
Includes:
Instruction Manual (070-1961-01).

7853A TIME BASE
7853A Dual Time Base
Includes:
Instruction Manual (070-1342-01).
Opt. 05 - TV Triggering
Includes:

1 +\$210

Instruction Manual (070-1471-00).

7D20 PROGRAMMABLE DIGITIZER
7D20 Programmable Digitizer \$10,750
Includes: Operator Manual (070-3857-01),
Pocket Reference Guide (070-3205-01),
Service Manual (070-3858-01),
Instrument Interface Guide
(070-1728-00).

ACCESSORIES

See page 70.