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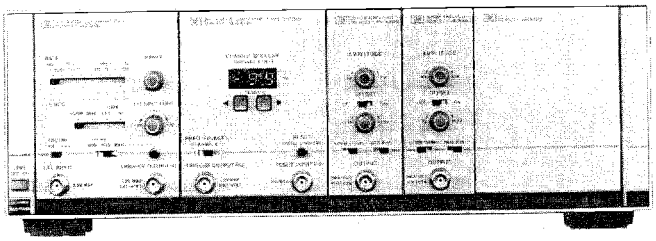
PULSE GENERATORS

Configurable Pulse/Data Stimuli

8080A Series

Example: 8080A, SO4
- 1 GHz, 300 ps transitions
- Interchannel delay

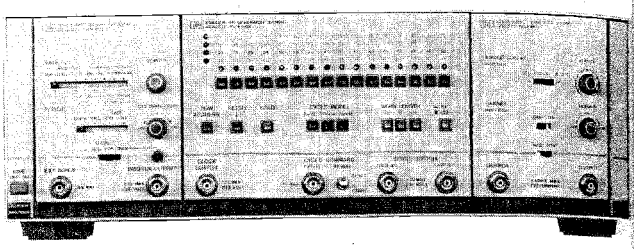
Example: 8080A DO1
- 300 MHz, 800 ps transitions
- Manually programmable data



8091A Rate Generator

8092A Delay Generator

CHA CHB 8093A Output Amplifiers



8081A Rate Generator

8084A Word Generator

8083A Output Amplifier

Research and development in advanced technologies such as subnanosecond ICs, fiber optics and nucleonics, require fast pulses for thorough characterization. The 8080A can, for example, generate simultaneous 1 GHz clock and simulated NRZ data for testing today's fastest memories, or complementary data with up to 64 bits and fast 300 ps edges for state-of-the-art communication devices. Cost-effectivity is promoted because the 8080A's modular structure allows performance and capability to be tailored to the requirement.

Two examples are shown here. Full details of these and all other factory-systemized configurations are in the data sheet. Individual modules are also available for special applications or for extending an existing configuration. Ask for the systemizing and adjustment guidelines.

Leading Characteristics (50-ohm load)

8080A SO4

Timing
Repetition rate: 100 Hz – 1 GHz.
Interchannel delay: ± 9.9 ns in 0.1 ns steps.
Channel B divider: 0.5 f selectable for simulating NRZ data.
Width: Square wave.
Modes: Int, Ext Width, Gate, Manual.
Independent 50-ohm Outputs
Amplitude: 0.6 V to 1.2 Vpp.
Offset: ± 1.2 V.
Transitions times (10% to 90%): <300 ps.
Polarity: selectable
Format: Normal/Complement selectable

8080A DO1

Timing
Repetition rate: 10 Hz–300 MHz.
Width: square wave (RZ) or NRZ.
Modes: Int, Ext/Manual Width.
Data cycle modes: Ext/Man Single and Gated Cycle, Auto Cycle.
Data: Serial, 16/32/64 bit selectable.
Simultaneous Normal and Complement 50-ohm Outputs
Amplitude: 0.2 V to 2 V.
Offset: ± 1 V.
Transition times (10% to 90%): <800 ps.
Polarity: selectable.

General

Operating temperatures: 0°C to 55°C.
Power: 115/230 V rms; + 10%, −22%; 48 to 66 Hz, 200 VA max.
Weight: (typical, 8080A Mainframe plus full complement of modules) 9.4 kg (16.6 lbs) net; 19.7 kg (43.3 lbs) shipping.
Size: (8080A Mainframe): 133 H x 426 W x 422 mm D (5.24" x 16.77" x 16.61").

Ordering Information

8080A Mainframe
Opt 907: Front handle kit
Opt 908: Rack flange kit
Opt 909: Opt 907, 908 combined
Opt S01: (8081/83A, 2 × 15400A)
Opt S02: (8081/93A, 2 × 15400A, 15401A)
Opt S03: (8091/93A, 2 × 15400A, 15401A)
Opt S04: (8091/92A, 2 × 8093A, 15400A)
Opt D01: (8081/83/84A)
Opt D02: (8081/84/93A, 15401A)
Opt D03: (8081/84A, 2 × 8093A)

8081A 300 MHz Rate Generator module
8083A 300 MHz Output Amplified module
8084A 300 MHz Word Generator module
8091A 1 GHz Rate Generator module
8092A 1 GHz Delay Generator module
8093A 1 GHz Output Amplifier module
Opt H01: For variable-width operation with 8092A
Additional manuals: Opt 910, per module

Accessories Available

15400A Blank Panel, ¼ mainframe width
15401A Blank Panel, ⅛ mainframe width
15402A BNC Feedthru panel, ⅛ width

Pulse Generator Accessories



15104A/15115A



15116A

15104A Pulse Adder/Splitter dc to 2 GHz
15116A Pulse Inverter 3 MHz to 2 GHz
15115A Pulse Splitter/Inverter 3 MHz to 2 GHz

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