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# PULSE GENERATORS

## Configurable Pulse/Data Stimuli

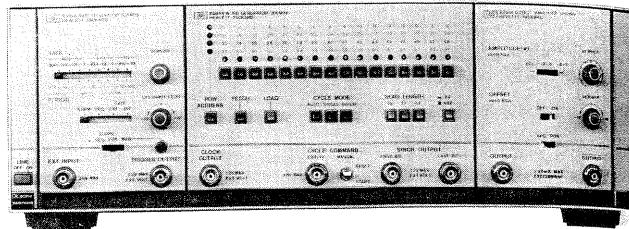
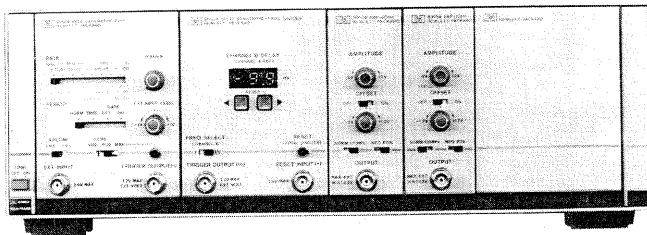
### 8080A Series

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 Output Amplifiers  
8093A

8081A Rate Generator  
8084A Word Generator  
8083A Output Amplifier

Research and development in advanced technologies such as sub-nanosecond 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:**  $\pm 9.9$  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 V<sub>pp</sub>.
- Offset:**  $\pm 1.2$  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:**  $\pm 1$  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 x 15400A)
- Opt S02:** (8081/93A, 2 x 15400A, 15401A)
- Opt S03:** (8091/93A, 2 x 15400A, 15401A)
- Opt S04:** (8091/92A, 2 x 8093A, 15400A)
- Opt D01:** (8081/83/84A)
- Opt D02:** (8081/84/93A, 15401A)
- Opt D03:** (8081/84A, 2 x 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, ½ mainframe width
- 15402A** BNC Feedthru panel, ½ 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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