



# MINIATURE FAST-RISE PULSER



Actual Size

The TU-5 tunnel-diode pulser generates a fast-rise, flat-top square wave designed to aid in adjustment of transient response of the Tektronix 80-Series Plug-In Units. It can also be used with letter series and sampling plug-in units. When used with letter-series plug-in units the pulser is sufficiently fast to show the rise-time of the oscilloscope and plug-in unit.

The oscilloscope calibrator output provides the proper input to the pulser. The TU-5 can be driven from the Type 105 Square-Wave Generator, using a TU-5/105 Adapter.

A bias adjustment on the pulser provides for changes in tunnel-diode characteristics due to temperature variations, tolerance, or other variables.

## CHARACTERISTICS

**RISETIME**—less than or equal to 1.5 nsec into 50 ohms.

**AMPLITUDE**—at least 200 mv with 50-ohm termination, 20 mv with 10X attenuator and 50-ohm termination.

**PULSE WIDTH**—about 0.5 msec, dependent on oscilloscope calibrator output, (oscilloscope calibrator is 1 kc).

**OUTPUT IMPEDANCE**—50 ohms (25 ohms when used with 50 ohm termination).

**SOURCE VOLTAGE**—100 volt square wave (10 ma) from the oscilloscope calibrator output, or with a TU-5/105 Adapter, from the Type 105 Square-Wave Generator, providing output frequencies up to 1 Mc.

**REPETITION RATE**—same as source voltage (1 kc from oscilloscope calibrator output).

**BNC CONNECTORS**—for input and output.

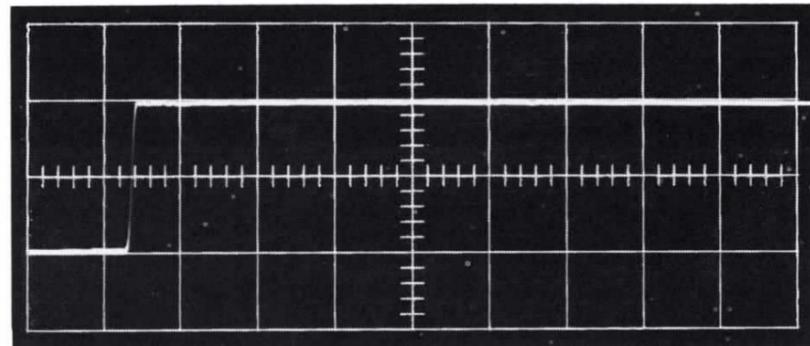
TU-5 PULSER (part no. 015-038) . . . . . \$25.00

TU-5 PULSER with accessories (part no. 015-043) \$46.50  
Includes one each: 50-ohm 10X BNC attenuator, 50-ohm BNC termination, BNC cable, UHF to BNC adapter.

U.S. Sales Prices f.o.b. Beaverton, Oregon

TU-5/105 ADAPTER (part no. 013-075)

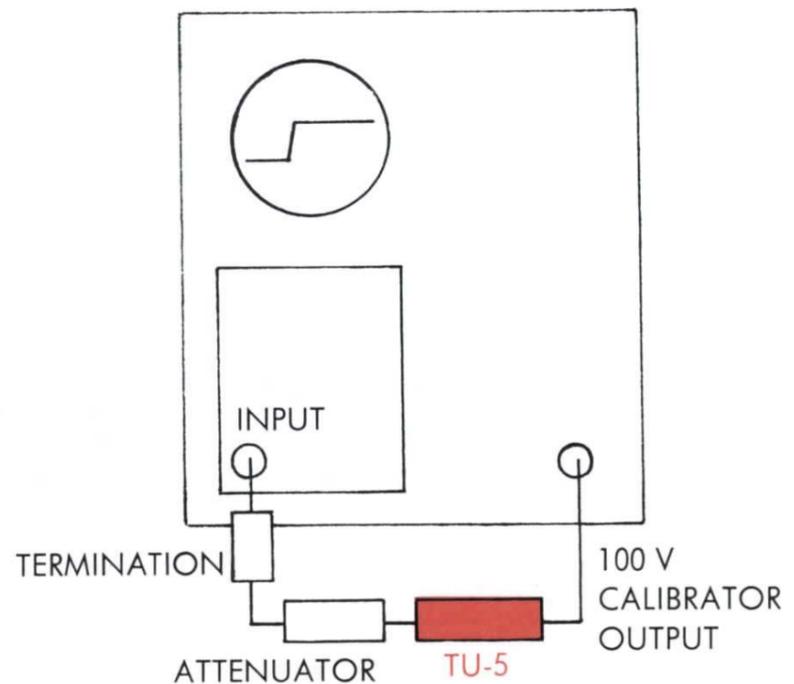
Price and availability will be released later.



Fast-rise square wave from TU-5 Pulser with Type 86 Plug-In Unit and Type 585 Oscilloscope—50 nsec/cm sweep speed, taken with Tektronix Type C-12 Camera.



ACCESSORIES



Fast-rise square wave from oscilloscope calibrator output—with TU-5 Pulser and optional accessories.

**Tektronix, Inc.** / P. O. BOX 500 • BEAVERTON, OREGON / Mitchell 4-0161 • TWX-503-291-6805 • Cable: TEKTRONIX.  
OVERSEAS DISTRIBUTORS IN 27 COUNTRIES AND HONOLULU, HAWAII.

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