

# Phillips Scientific

## NIM Pocket Pulser

## MODEL 417

### FEATURES

- \* Current Switching NIM Output Pulse
- \* Operates Direct Coupled into 50 Ohm Load
- \* Long Battery Life - Three Years
- \* 6nSec Pulse Width at 10 KHz Rate
- \* Small Size - Low Cost

### DESCRIPTION

The NIM pocket pulser is a compact, lightweight battery operated pulse generator. It provides a convenient and portable way of simulating fast negative photomultiplier pulses or NIM logic pulses, to easily check cables and electronics in the laboratory or remote experimental sites. The model 417 generates a negative pulse resembling a photomultiplier with the risetime of 1.5nsec and width of 6nSec at a 10 KHz rate. An output is present when a load of 10K ohms or less is connected. With no load the pulser goes to a standby condition with a battery life in excess of three years. The fully compatible fast NIM output is typically -16mA (-800mVolts across 50ohms), with no DC offset present. The current switching output will not be damaged when testing shorted cables.

### SPECIFICATIONS

**Output Rise and Falltimes** : Typically 1.5nSec Risetime, 5nSec Falltime.

**Repetition Rate** : Typically 10 KHz.

**Amplitude** : Typically -800mVolts for resistive loads of 50 ohms to 10K ohms.

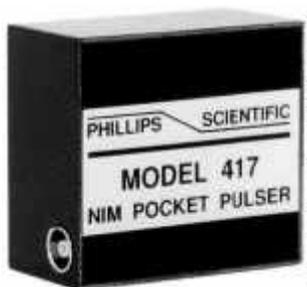
**Connector Type** : LEMO, female.

**Battery Life** : Over 1000 hours for continuous use. Over three years for standby (no load).

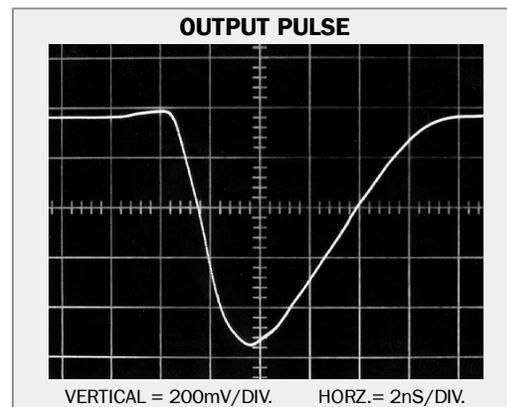
**Battery Type** : 3 Volt Lithium coin battery; comes with Panasonic number BR2325 or BR2320H. The Radio Shack equivalent part number is CR2320H (catalog no. 23-163).

**Dimensions** : 1.375" x 1.250" x .675, (3.5 cm x 3.18 cm x 1.72 cm)

**Care and Service** : No serviceable parts other than battery replacement; The positive side of the battery faces out.



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