

FIELD MAINTENANCE SUPPORT

4S2 Pulser

This battery-powered unit allows checking step function response with a minimum of correction due to pulse source risetime limitations.

In particular, the Type 4S2 with this pulser, exhibits no more than 105 psec risetime.

This pulser has a high repetition rate of 100 KC, making the unit especially suitable for sampling systems. A pre-trigger, 50-60 nsec early, permits operation in conjunction with any of the Tektronix sampling systems.

The pulser contains a transistor blocking oscillator, an adjustable diode drive clamp, delay cable and a 100 ma 6 pf, max C tunnel diode mounted in a special coaxial air line environment. The free-running blocking oscillator generates a 50 nsec long pulse with adequate amplitude to drive the clamp, TD and pre-trigger. The diode clamp, 30 nsec from the blocking oscillator, flattens the negative-going pulse at a level just sufficient to switch the 100 ma TD, which is another 30 nsec past the clamp. These delays help provide a clean pulse as does the special TD mounting.

This device draws about 2.5 ma. It is difficult to predict the battery life, but one might expect about a month under average use. New batteries may be ordered from Customer Service. The part number is 006-506.

