

### FEATURES

- \* Compact In - Line Design
- \* Eliminates Noise Caused by Ground Loops
- \* Pulse Inverting or Non-Inverting Option
- \* BNC or LEMO Style Connectors
- \* Accepts Bipolar and Logic Signals
- \* Wide Bandwidth, Low Distortion
- \* Low Cost



### DESCRIPTION

The Model 425 contains an isolated pulse transformer packaged between either female BNC or LEMO style connectors. By isolating the signal and ground path between detectors and sensitive instruments, it provides a means of eliminating the noise developed due to ground currents and pick-up over long cable runs. Its wide bandwidth, excellent pulse fidelity, and in-line design make it useful for a wide variety of laboratory applications.

### GENERAL PERFORMANCE

- Voltage Range** :  $\pm 100$  Volts for 1mSec maximum; Non-polarized and reversible in-line.
- Bandwidth** : 250 KHz to 250 MHz (3db point).
- Risetime** : Less than 1.4nSec.
- Droop** : Typically 10% for 500nSec wide pulse; (into 50 ohm load).
- Insertion Loss** : Typically 10% @ 100 MHz.
- Packaging** : Cast aluminum enclosure; 1.5" L x 1.1" W x .91" H,  
(3.8 cm x 2.8 cm x 2.3 cm).
- Ordering Information** : Specify model number, phase and connector type when ordering. (e.g. Part number : **425 - I - B**); indicates **I**nverting, **B**NC connector; No designation for Non-inverting, **L** for LEMO style connector.