Bulletin 910901

TOLERANCE BAR SOFTWARE

For

Shock Testing requiring Nominal Shock Pulse Shapes
Including MIL-STD's 810, 202, 883, & BS2011.

WHAT IS IT?

An optional integrated software package for the CAT System that provides fast, flexible and more accurate tolerance bar shock testing for MIL-STD's.

WHAT DOES IT DO?

Capture shock signals and calculates peak accelerations, velocity change and duration.

Allows user selection of STD, shape, D and A parameters to construct a full range of spec bars.

Plots tolerance bars on signal screen. Allows signal moves for best fit. Checks for tolerance fit and integral.

Maintains database files on hard disk with test results and report descriptions. Files may be transported, listed.

Outputs hardcopy with scales and grid of waveform picture and tolerance bars with user edited formats on laser (11sec), dot matrix and color printers.

WHAT ARE TYPICAL APPLICATIONS?

* Applicable MIL-STD's
* Product Shock Screening
* General Shock Testing
* Shock Machine

WHAT ARE SOME KEY FEATURES?

Automatic plot, more accuracy for measuring amplitude of square shock pulses, database files allow test interruption and resumption and are transportable, test/product identifications for reports are user entered.

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up date

Waveform Test Report

GHI SYSTEMS, INC. TRIAD CAT SYSTEM

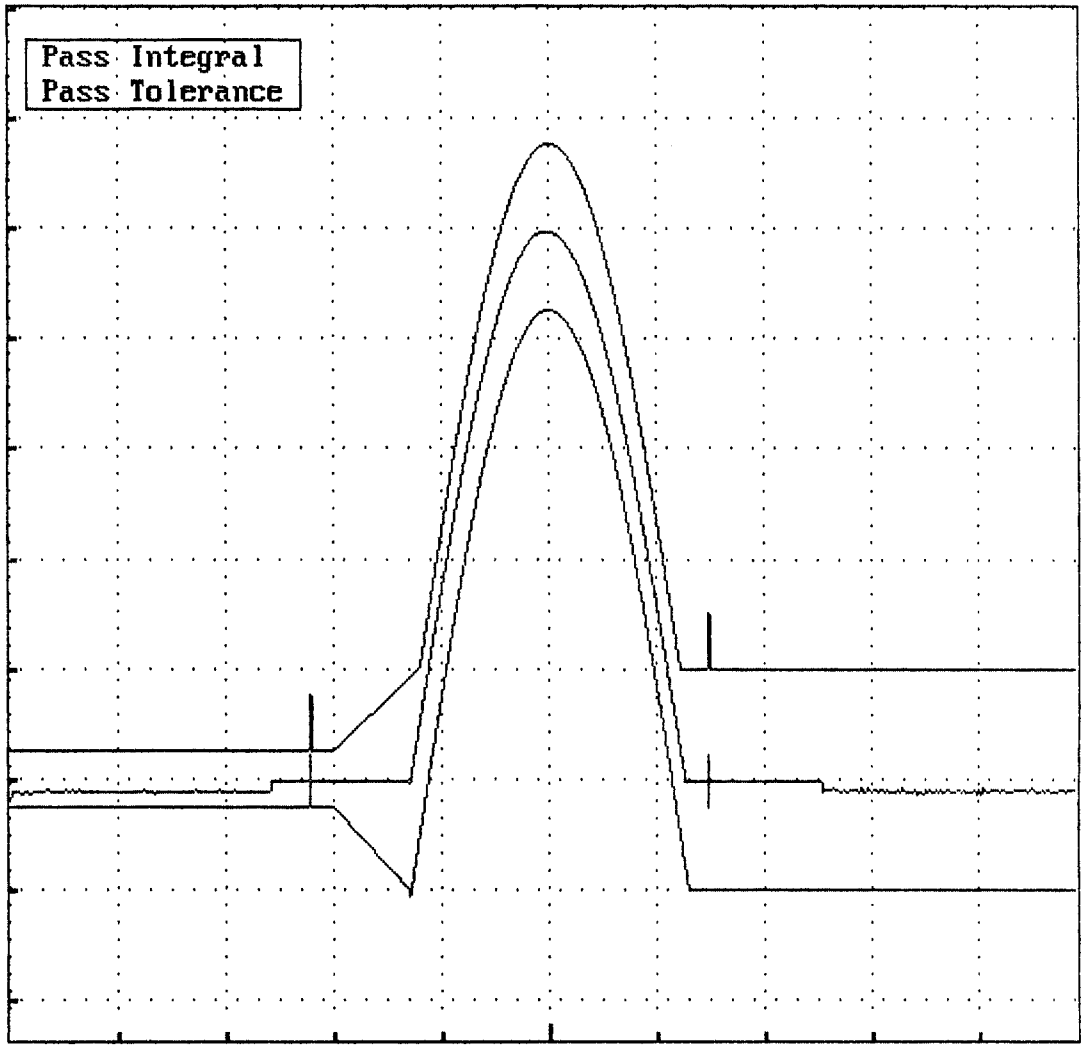
Date	: Wed April 11 1990	Customer	: None
PRODUCT IDENT	: Mil shock demo	Test Type	: MIL-STD- 202-
SHOCK AXIS	: vertical	TEST TITLE	: Demonstration

Test No.: 1 Pulse shape: Half Sine Duration: 2.0 mS GMax:200.0 g's Max Integral: 108.2 In/s Min Integral: 88.6 In/s

Sensitivity:

Ch. 1: 40.00 g's/Div

Filter:



Trig. Ch. : 1
Polarity : Window
Level : 100.10 g's
Mode : Single Event
Pretrigger : 45 %

CH	TIME	CUR AMP	PEAK AMP	1ST INT	2ND INT	TIME/DIV
■ 1	2.96 mS	0.04 g's	199.99 g's	100.76 In/s		0.8 mS

Remarks

The above test shock was simulated. Up to 4 channels of shock may be recorded in parallel with each channel processed independently. In the above test, the halfsine passed both the numerical integral and tolerance.