Nicholas Brodsky

Abstract

[Draw your reader in with an engaging abstract. It is typically a short summary of the document.   
When you’re ready to add your content, just click here and start typing.]

PTL – digital datasheet

Documentation

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PTL Digital Datasheet

# Menu



## File

### New

* Creates a new empty job template window.
  + **New Window**: Opens a new window separate from the current one.
  + **This Window**: Removes all data from current job window to create a blank template.
    - Any unsaved data will be lost!

### Open

* Opens the “Open Job” window to select desired job to open (complete information in 4.1 Open Job section).



### Save

* Save current job data.

### Exit

* Closes job window.

## Edit



### Remarks Document (IP)

* Opens “Edit Remarks Document” window to update the remarks document.

### Specification Requirements

* Opens “Edit Specification Requirements” window to update the specification requirements (complete information in 4.3 Edit Specification Requirements section).



## View (IP)

## Create

### Hard Copy

* Copies and formats current job data into a printable version of the datasheet.

### Test Report

* Copies and formats current job data into final test report (data section only)



* + If the current job has more than 6 serial numbers or multiple structures, the “Test Report Structure” window will open (complete information in 4.4 Test Report Structure section).
    - User will enter number of serial numbers per page and/or desired structure title format to display on final report.

# Form

## As Received



## After Thermal Stress

* Contains same standard form fields as original hard copy datasheet.
* Changing the Test Condition to “After Thermal Stress” will reveal the thermal stress specific additional fields.
* Each job is made unique by three required form fields.
  + Work Order Number, Testing Performed On, & Test Condition.
    - At least these three fields must be filled to be able to save the job.
* “Get Spec Requirements” button:
  + Auto-fill requirements based on given specification(s). Complete details in Requirements section.
* The small arrow button on the top right directly above the form will toggle the form when clicked for more visibility of the measurement/observation section when recording data.
* Top left label above the form displays current job even when form is hidden.
  + Displays: Work Order Number, Testing Performed On, Customer, & Test Condition.
    - Label is updated as these fields are updated.

# Examination

* Main components (top down):
  + Measurement & observation titles, structure title(s), recorded data, requirements, remarks.

## Structure Title(s)

* Replace default “Hole Structure #” with actual structure title.
  + Each structure title must be unique (no duplicates).
* Required format:
  + ex: B1cpn; Blind Vias; #1-3, 4-6; X-di
  + Each section of the complete structure title must be separated with a semicolon ‘;’.
  + Second part of the structure title must be the type of hole.
    - As in the previous example: Blind Vias
      * This is needed to corelate specific requirements to set structures (more info in requirement section).
* The two buttons, ‘minus’ and ‘plus’, are to add/remove structure titles from the recorded data section. Only the top structure title has the buttons.
  + Clicking the add button will add and new structure section underneath the last row of the currently last structure section followed by one blank row for recorded data.
  + Clicking the remove button removes sections from the bottom up.
    - **NOTE**: This will completely (irreversibly) remove the currently last structure section along with any recorded data for that section with it.
* If there are multiple structures, you can add as many sections as needed, enter all the serial numbers and locations for the first one, right click the structure title add button and select “Set to each structure.”
  + This will duplicate the complete section for the first structure and auto generate and auto fill the remaining structure sections to match the first.
  + You will be prompted with a warning question about continuing.
    - If you select ‘Yes’ the process will continue, if you select ‘No’ you will return as you were.
      * **NOTE**: Selecting ‘Yes’ will overwrite any recorded data you have outside of the first structure section.

## Recorded Data

* Contains (left to right) add/remove buttons, coupon identification, measurement section, and observation section.

### Coupon Identification

* This first field (furthest left) in each recorded data row.
* Contains fields for serial number and location.
  + Each row must contain at least a serial number.
* Within each unique structure section, you cannot have any duplicate serial number and location combinations.

### Measurements

* Each measurement textbox has auto-formatting properties (take affect when clicking the mouse outside of the textbox):
  + If you enter invalid text (i.e., random letters) it will create a red border.
  + Simply entering a whole number will place the decimal four places to the left for the standard entry.
    - To avoid this, entering the number as a decimal manually will allow you to determine the exact output you want to however many decimal places.
  + The background color will be set to the basic row color or yellow based on an accept/reject parameter set by the corelated requirement (same column).
* By right clicking a field, you will see a menu of selections.
  + Normal Background & Yellow Background are the first two.
    - Allows you to manually set the background if you need to avoid the autoformatting set by the specific requirement.
  + Add/Remove Note:
    - This allows you to toggle a small textbox in the upper-right corner of the measurement textbox to add any notes.
  + Zoom (further detail in ‘Measurement Zoom’ section):
    - Creates a magnified set of measurement fields matching the row the menu item is selected in.
* To separate multiple measurements within the same field, use the ‘Enter’ key.
* Adding ‘N/A’ or ‘\*’ to any measurement will automatically add that same value to every empty textbox in that same row and within that same structure section.

### Observations

* Each observation textbox has auto-formatting properties (take effect when changing the text within the textbox):
  + The way they format are split between the individual observation fields and the ‘Accept/Reject’ field.
  + The individual observation fields can contain: ‘?’, ‘\*’, ‘A’, and ‘R’.
    - When setting any of these fields to R, the ‘Accept/Reject’ field for this row will also be set to R and the background color of both textboxes will be set to yellow.
  + The ‘Accept/Reject’ field can contain: ‘?’, ‘\*’, ‘A’, ‘A\*’, and ‘R’.
    - When setting this field to A, every individual observation field within the same row will also be automatically set to A.
    - When setting this field to R, the background color of this textbox will be set to yellow.

## Requirements

* While the specific requirements are added directly into each requirement textbox, there are general formats along with six specific formats in which they need to be entered in order to accurately corelate with the associated measurement field and correctly register a pass or fail.
* When right-clicking a requirement textbox, you will have a menu with two options.
  + **Set to Structure**: ‘Requirement Structure’ window will open allowing you to set the current requirement based on provided structures (complete information in 3.3.6 Structure Requirement section).
  + **Combine/Separate Requirements**: This either combines the selected requirement with the one to its immediate right or divides it, depending on its current state (complete information in 3.3.7 Double Column Requirement section).

### General Requirement Format

* To be able to register a pass/fail with the associated measurement, the requirement must have at least one decimal number (less than 1) and either a ‘min’ or a ‘max’ to make the correct comparison to the measurement.
* When needing additional requirements within the same textbox, use the ‘Enter’ key to separate requirements.
  + NOTE: Do not use the ‘Enter’ key to simply move to the next line. Any text on its own line will be treated as an individual requirement.

### Single Measurement Single Requirement

* With one measurement and one requirement, the measurement will be evaluated to the requirement in the same column based on the decimal value and min or max setting.

### Single Measurement Double Requirement

* With one measurement and two requirements, the measurement will be evaluated to each requirement (separated with the ‘Enter’ key) individually.
  + If the measurement fails from either requirement it is considered a reject.

### Double Measurement Single Requirement

* Here, both measurements (separated with the ‘Enter’ key) will be evaluated to the requirement.
  + If either measurement fails it is considered a reject.

### Double Measurement Double Requirement

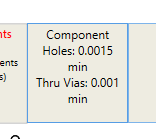
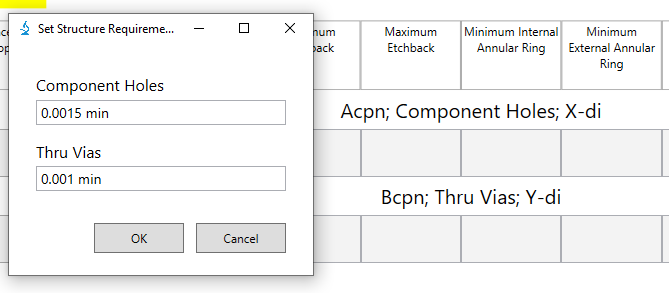
* With two measurements and two requirements, each measurement will be evaluated individually to the requirement matching the line the measurement is on.
  + If either measurement fails it is considered a reject.

### Structure Requirement

* For a measurement to be evaluated by the correct requirement based on its hole structure, the requirement must be preceded by the hole structure(s) matching each structure section.
  + You can do this manually by typing the structure exactly as it is written in the second part of the structure title section, followed by a colon and then the requirement.
  + You may also have the format set automatically by right clicking the requirement textbox, selecting “Set to Structure” and filling out the values in the pop-up window. Which ever method you choose, the format of the requirement will be the same and must match for any associated measurements to be evaluated correctly.

After opening structure requirement window, enter requirement for each listed structure.

Completed structure requirement format.



### Double Column Requirement

### Auto-Fill Requirements

## Remarks

* The Remarks section contains add/remove buttons, a search icon, and however many needed fields for entering the remarks (none initially).
* To add a remark to the current job, the add button will create an empty textbox directly after the current last one to enter your remark.
  + After adding a remark, you must enter some text in order to be able to add a new remark (if the last remark is still empty, the add button will not do anything).
* To remove a remark, click the remove button.
  + This will delete the last remark available.
* Clicking on the search icon will open the “Remarks Document” window (Complete details in Remarks Document section).
  + This allows you to use the remarks documentation to autofill the next available remark with some entry in the document.

# Separate Windows

## Open Job

## Edit Remarks Document

## Edit Specification Requirements

## Test Report Structure

## Measurement Zoom

## Requirement Structure

## Remarks Document