PERCENT DEFECTIVE PLOT Graphics Commands

PERCENT DEFECTIVE PLOT

PURPOSE

Generates a subsample percent defective versus subsample index plot.

DESCRIPTION

The subsample percent defective index is the percent defective of the data in the subsample. The percent defective plot is used to answer the question: "Does the subsample percent defective index change over different subsamples?" The plot consists of:

```
Vertical axis = subsample percent defective index;
```

Horizontal axis = subsample index.

In addition, a horizontal line is drawn representing the full sample percent defective value. The appearance of the 2 traces is controlled by the first 2 settings of the LINES, CHARACTERS, SPIKES, BARS, and similar attributes.

SYNTAX

EXAMPLES

```
PERCENT DEFECTIVE PLOT Y X
PERCENT DEFECTIVE PLOT Y X SUBSET X > 6
```

NOTE 1

The percent defective computes the number of defectives for a variable (i.e., the number of values that fall outside of some user specified tolerance limits) and expresses it as a percentage.

NOTE 2

The upper and lower specification limits must be specified by the user as follows:

```
LET USL = <value>
LET LSL = <value>
```

DEFAULT

None

SYNONYMS

None

RELATED COMMANDS

 $\begin{array}{lll} \text{CHARACTERS} & = & \text{Sets the type for plot characters.} \\ \text{LINES} & = & \text{Sets the type for plot lines.} \\ \text{CP PLOT} & = & \text{Generates a C_p plot.} \\ \text{CPK PLOT} & = & \text{Generates a C_{pk} plot.} \\ \text{EXPECTED LOSS PLOT} & = & \text{Generates an expected loss plot.} \\ \text{CAPARITIES ANALYSIS} & & \text{Proposition of the plane of the$

EXPECTED LOSS PLOT = Generates an expected loss plot.

CAPABILITY ANALYSIS = Performs a capability analysis.

BOX PLOT = Generates a box plot.

XBAR CHART = Generates an xbar control chart.

PLOT = Generates a data or function plot.

APPLICATIONS

Quality Control

IMPLEMENTATION DATE

93/10

Graphics Commands PERCENT DEFECTIVE PLOT

PROGRAM

SKIP 25

READ GEAR.DAT DIAMETER BATCH

TITLE CASE ASIS

LABEL CASE ASIS

TITLE Gear Diameter Analysis

Y1LABEL PERCENT DEFECTIVE

X1LABEL Batch

LEGEND 1 Process Capability

LEGEND 2 PERCENT DEFECTIVE Plot

XTIC OFFSET 0.5 0.5

YTIC OFFSET 2.0 2.0

CHARACTER CIRCLE BLANK

CHARACTER FILL ON

CHARACTER SIZE 1.2

SPIKE ON

SPIKE DOTTED

LINE BLANK SOLID

.

LET LSL = 0.99

LET USL = 1.01

PERCENT DEFECTIVE PLOT DIAMETER BATCH

