

JIS

JAPANESE INDUSTRIAL STANDARD

Print specifications for magnetic ink
character recognition (E13B)

JIS X 9002-1980
(Reaffirmed:1991)

Translation without guarantee
In the event of any doubt arising, the original
standard in Japanese is to be evidence

Translated
by
Japanese Standards Association

This English translation is prepared at the expense of Japan
External Trade Organization (JETRO)

1. Scope

This Japanese Industrial Standard specifies the shapes, dimensions and tolerances for ten digits and four special symbols of the E13B fonts to be printed in magnetic ink and used for the purpose of character recognition.

This Standard also covers the printing quality and specifications for signal level measurement.

2. Definition

For the purpose of this Standard, the following definitions apply:

- (1) magnetic ink Ink capable of being magnetized and sensed electromagnetically.
- (2) magnetic ink character Character printed in magnetic ink, being also described simply as character.
- (3) stroke Designation of each character of the E13B fonts consisting of 10 digits and four symbols.
- (4) horizontal center line Center line to establish the relative dimensions of character in horizontal direction.
- (5) vertical center line Center line to establish the relative dimensions of character in vertical direction.
- (6) average edge Imaginary line that which divides the irregularities along the edge of a character so that the summation of the white areas on one side of the line is equal to the summation of the white areas on the other side.
- (7) typical dimensions Standard distances from the horizontal center line or from the vertical center line to the edge of character.
- (8) character design matrix The matrix consisting of 7×9 squares, to be used for the purpose of designing the shape of character.
- (9) character width The width between average edges on both side of character.
- (10) character spacing The distance between the right average edge of adjacent characters.
- (11) alignment of characters The relative vertical location of a character with respect to adjacent character.
- (12) void The absence of ink within the average edge of the printed character.
- (13) clear band A band where characters are printed in magnetic ink. This band must be free of any magnetic ink, other than prints of magnetic ink characters.
- (14) spot Extraneous magnetic ink on paper, located within the clear band.
- (15) field The specified area within the clear band for the purpose of printing.
- (16) common field The field where printing is performed according to the specified formats which are common among users.
- (17) fixed format The format where printing is performed according to the rules specified among users.
- (18) variable format The format where printing is performed freely depending upon requirements of individual users.

 Reference Standard:

ISO 1004 Information processing—Magnetic ink character recognition—Print specifications