

## 4 File Header Information

*Keyword:*     **[IBIS Ver]**

*Required:*    Yes

*Description:* Specifies the IBIS template version. This keyword informs electronic parsers of the kinds of data types that are present in the file.

*Usage Rules:* [IBIS Ver] must be the first keyword in any IBIS file. It is normally on the first line of the file, but can be preceded by comment lines that must begin with a "|".

*Example:*

```
[IBIS Ver] 5.0 | Used for template variations
```

*Keyword:*     **[Comment Char]**

*Required:*    No

*Description:* Defines a new comment character to replace the default "|" (pipe) character, if desired.

*Usage Rules:* The new comment character to be defined must be followed by the underscore character and the letters "char". For example: "|\_char" redundantly redefines the comment character to be the pipe character. The new comment character is in effect only following the [Comment Char] keyword. The following characters MAY be used:

```
! " # $ % & ' ( ) * , : ; < > ? @ \ ^ ` { | } ~
```

*Other Notes:* The [Comment Char] keyword can be used anywhere in the file, as desired.

*Example:*

```
[Comment Char]     |_char
```

*Keyword:*     **[File Name]**

*Required:*    Yes

*Description:* Specifies the name of the IBIS file.

*Usage Rules:* The file name must conform to the rules in paragraph 3 of Section 3, General Syntax Rules and Guidelines. In addition, the file name must use the extension ".ibs", ".pkg", or ".ebd".

*Example:*

```
[File Name]         ver5_0.ibs
```

## 5 Component Description

*Keyword:*     **[Component]**

*Required:*    Yes

*Description:* Marks the beginning of the IBIS description of the integrated circuit named after the keyword.

*Sub-Params:* **Si\_location, Timing\_location**

*Usage Rules:* If the .ibs file contains data for more than one component, each section must begin with a new [Component] keyword. The length of the component name must not exceed 40 characters, and blank characters are allowed.

NOTE: Blank characters are not recommended due to usability issues.

Si\_location and Timing\_location are optional and specify where the Signal Integrity and Timing measurements are made for the component. Allowed values for either subparameter are 'Die' or 'Pin'. The default location is at the 'Pin'.

*Example:*

```
[Component]       7403398 MC452
|
Si_location       Pin       | Optional subparameters to give measurement
Timing_location   Die       | location positions
```

*Keyword:*     **[Manufacturer]**

*Required:*    Yes

*Description:* Specifies the name of the component's manufacturer.

*Usage Rules:* The length of the manufacturer's name must not exceed 40 characters (blank characters are allowed, e.g., Texas Instruments). In addition, each manufacturer must use a consistent name in all .ibs files.

*Example:*

```
[Manufacturer]   Intel Corp.
```