

Ref Des Pattern

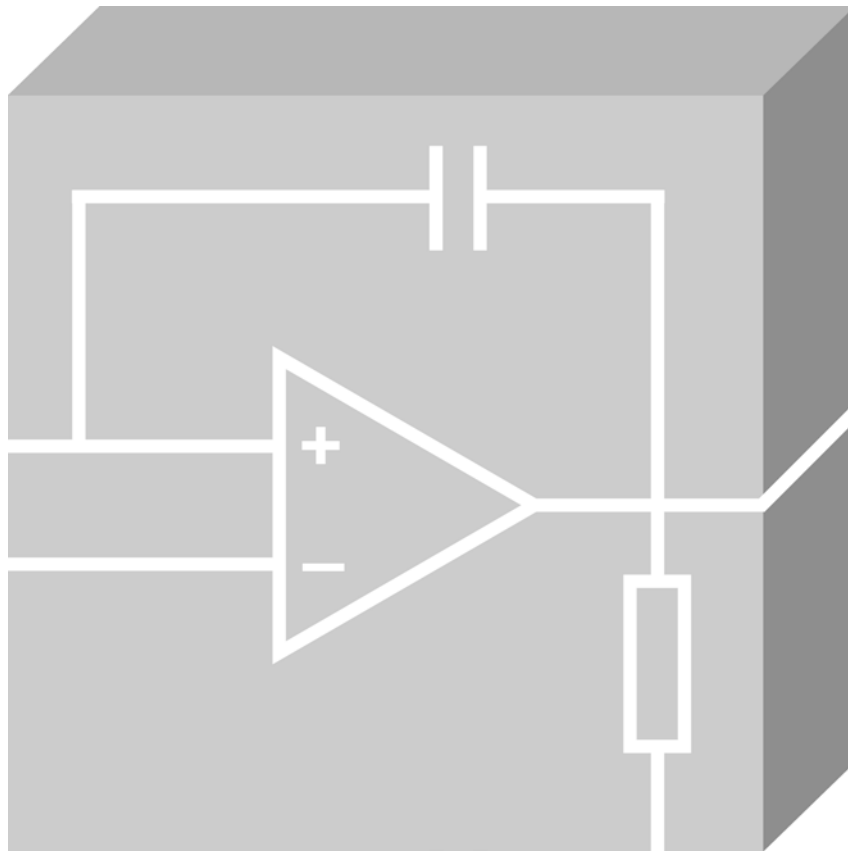


Table of Contents

- 1 Ref Des Pattern Definition 3**
- 1.1 REF_DES_PATTERN 3
- 1.2 Example [as a Directive] 4
- 1.3 Example [of Inheritance on a Module Basis] 5
- 2 REF_DES_LENGTH 5**
- 2.1 Example 6

1 Ref Des Pattern Definition

Specifies a reference designator that is different from the default. The default reference designator uses the PHYS_DES_PREFIX property as the base name plus a number, which is appended by Packager-XL. If you require a different naming scheme from the default, you can specify a new naming scheme.

1.1 REF_DES_PATTERN

The REF_DES_PATTERN directive specifies the format of reference designators (that is, location properties) assigned to the physical parts in the design. The REF_DES_PATTERN directive applies to all parts in your design. If you want to specify a pattern for a particular part or instance, use the REF_DES_PATTERN property instead. The REF_DES_PATTERN directive is only applied to unpackaged parts in the design.

To change the existing reference designators:

- Use the REPACKAGE directive.
- or
- Manually edit the LOCATION properties in the schematic.

Note

You can specify REF_DES_PATTERN as a property or a directive.

REF_DES_PATTERN overrides the default naming convention used by Packager-XL.

Syntax

Default REF_DES_PATTERN pattern

pattern	(\$PHYS_DES_PREFIX)[0-9](1)
---------	-----------------------------

The pattern can be a combination of the following:

- Ordinary characters
- Value to be incremented

Note

Spaces are not allowed in a pattern.

This value is specified within square brackets [] and you can use this value more than once. The letters 0-9 indicate a numeric value, while the letters A-Z indicate an alphabetic value.

A value in parentheses is specified to modify the value in square brackets (place parentheses after brackets).

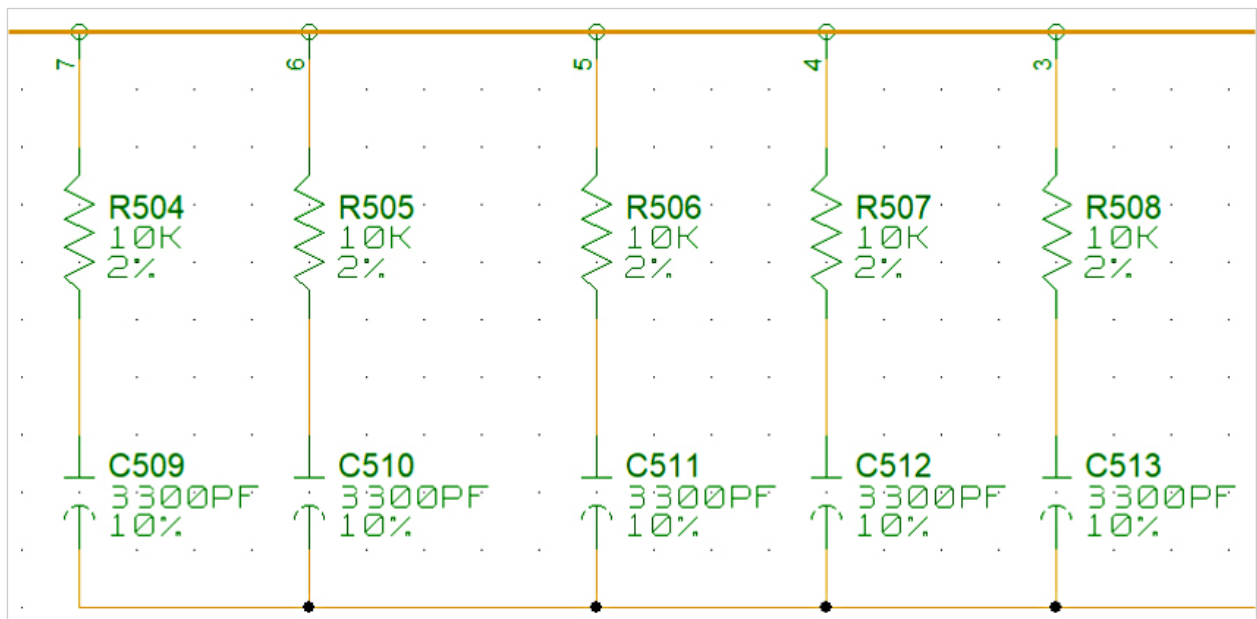
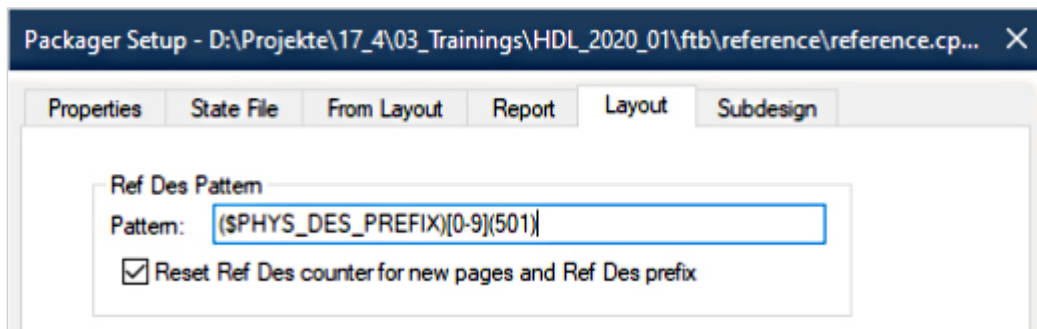
You can only specify this value once in a pattern. This value indicates a starting number or character other than 0 or A. The number of characters in this value controls the number of place holders in the reference designator.

For example:

You can use a property name preceded by a dollar sign (\$) in parentheses to add design properties such as page or drawing name.

1.2 Example [as a Directive]

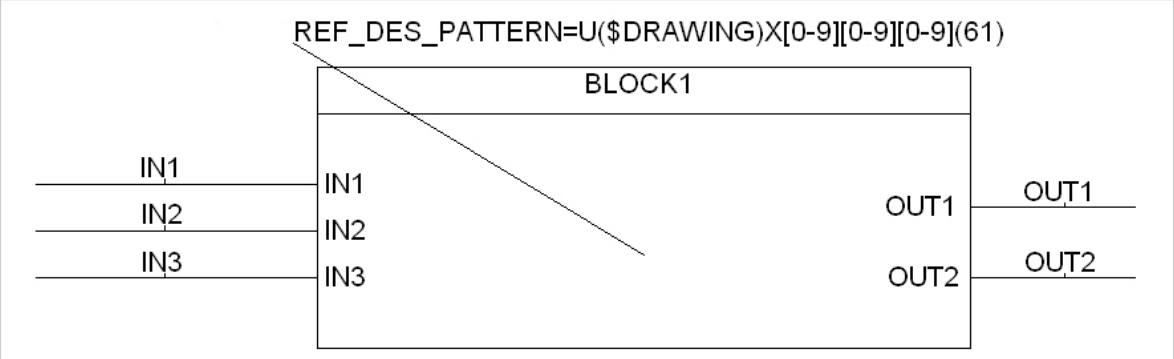
REF_DES_PATTERN (\$PHYS_DES_PREFIX)[0-9](501)



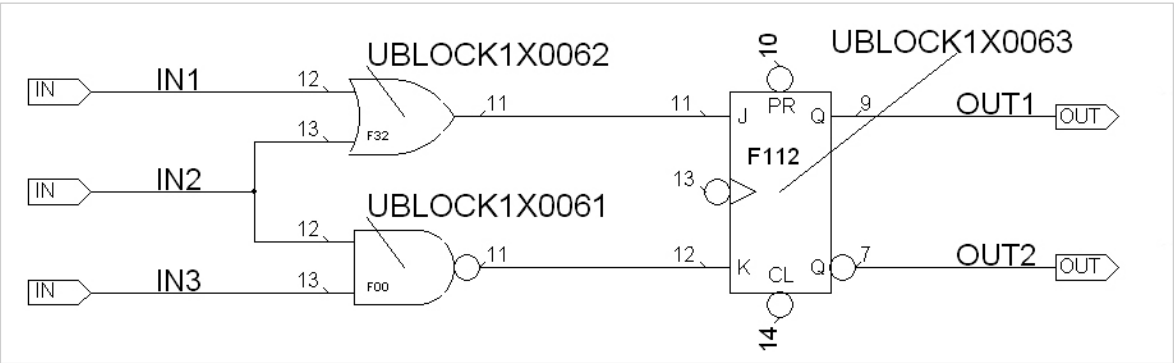
Note

You can use the PHYS_DES_PREFIX property as part of your REF_DES_PATTERN directive. The following pattern uses the PHYS_DES_PREFIX property as the first character of the reference designator and begins incrementing from number 501 to complete the pattern.

1.3 Example [of Inheritance on a Module Basis]



Starting from the instance of a part or module (BLOCK1) REF_DES_PATTERN will be inherited to the lower-level primitives.



U(\$DRAWING)X[0-9][0-9][0-9](61) attaches the name, UBLOCK1X0061 starting from the first instance of a part on the module BLOCK1.

2 REF_DES_LENGTH

The REF_DES_LENGTH directive controls the maximum length of physical reference designators generated by Packager-XL.

The REF_DES_LENGTH directive does not affect the user-assigned LOCATION properties. However, if the LOCATION property value (user assigned or synthesized from the REF-DES-PATTERN directive) exceeds the maximum length of physical reference designators, an error message is generated.

Syntax

REF_DES_LENGTH number

number	The maximum number of characters in the reference designator.
--------	---

The default value for the REF_DES_LENGTH directive is 31 characters.

2.1 Example

