

Subject: Second draft of edits for updating complex parts
 From: Van Snyder
 Reference: 04-384r1, 05-128, WG5/N1626-J3-015

1 Edits

2 Edits refer to 04-007. Page and line numbers are displayed in the margin. Absent other instructions, a
 3 page and line number or line number range implies all of the indicated text is to be replaced by associated
 4 text, while a page and line number followed by + (-) indicates that associated text is to be inserted after
 5 (before) the indicated line. Remarks are noted in the margin, or appear between [and] in the text.

6 [Editor: Add a right-hand side for *designator* (R603) in alphabetical order:] 103:12+

7 `or complex-part-designator`

8 [Editor: Insert a new subclause before **6.1.3 Type parameter inquiry**:] 106:2+

9 6.1.2 $\frac{1}{2}$ Complex variable parts

10 A **complex part designator** is used to reference or define the real or imaginary part of a complex
 11 variable, independently of the other part.

12 R614 $\frac{1}{2}$ *complex-part-designator* **is** *designator* % REAL
 13 **or** *designator* % AIMAG

14 C615 $\frac{1}{2}$ (R614 $\frac{1}{2}$) The *designator* shall be of complex type.

15 If *complex-part-designator* is *designator*%REAL it designates the real part of *designator*. If it is *desig-*
 16 *nator*%AIMAG it designates the imaginary part of *designator*.

NOTE 6.6 $\frac{1}{2}$

The following are examples of complex part designators:

```
impedance%real      !-- Same as REAL(impedance)
fft%aimag           !-- Same as AIMAG(fft)
x%aimag = 0.0       !-- Sets the imaginary part of X to zero
```

17 [Editor: Near the middle of the first paragraph of **7.1.4.1 Type, type parameters, and shape of a** 123:31
 18 **primary** “If it is a variable or function reference” \Rightarrow “If it is a complex part designator (6.1.2 $\frac{1}{2}$), its type
 19 is real, and its kind and shape are those of the complex variable. If it is a function reference or a variable
 20 that is not a complex part designator”.]