Subject:First draft of edits for updating complex partsFrom:Van SnyderReference:04-384r1

1 **1** Introduction

2 Assuming updating complex parts gets onto the J3 work plan, the reason for this paper is to get a3 running start on the edits.

4 2 Edits

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

| 9 | or complex-part-designator | 103:12+ |
|----------|---|---------|
| 10 | [Editor: Insert a new subclause:] | 106:2+ |
| 11 | 6.1.2 $\frac{1}{2}$ Complex variable parts | |
| 12 13 | A complex part designator is used to reference or define the real or imaginary part of a complex variable, independently of the other part. | |
| 14 15 | $\begin{array}{ccc} \mathrm{R614}\frac{1}{2} & complex-part-designator & \mathbf{is} & designator \ \% & \mathrm{REAL} \\ \mathbf{or} & designator \ \% & \mathrm{AIMAG} \end{array}$ | |

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

- 17 If complex-part-designator is designator%REAL it designates the real part of designator. If it is desig-
- 18 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

19 [Editor: "If it is a variable or function reference" \Rightarrow "If it is a complex part designator (6.1.2 $\frac{1}{2}$), its type 123:31

20 is real, and its kind and shape are those of the complex variable. If it is a function reference or a variable

21 that is not a complex part designator".]