

S E R V I C E N O T E

SUPERSEDES: 6614C-03

**6614C Mobile Communications DC Source**

**Serial Number:** see below

**6614C Current Programming Accuracy At Zero Amps**

**Duplicate Service Notes:**

- 6611C-03A US00000000 / US00000000
- 6612C-03A US00000000 / US00000000
- 6613C-03A US00000000 / US00000000
- 6614C-03A US00000000 / US00000000
- 6631B-04A US00000000 / US00000000
- 6632B-04A US00000000 / US00000000
- 6633B-04A US00000000 / US00000000
- 6634B-04A US00000000 / US00000000
- 66111A-01A US00000000 / US00000000
- 66312A-05A US00000000 / US00000000
- 66311A-02A US00000000 / US00000000
- 66311B-02A US00000000 / US00000000
- 66311D-02A US00000000 / US00000000
- 66309B-02A US00000000 / US00000000
- 66309D-02A US00000000 / US00000000
- 66332A-05A US00000000 / US00000000

**To Be Performed By:** Agilent-Qualified Personnel or Customer

**Parts Required:** None

*Continued*

DATE: December 2000

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
<b>INFORMATION ONLY</b>		
AUTHOR: BM	ENTITY: 2100	ADDITIONAL INFORMATION:



**Situation:**

The Current Programming Accuracy is out of spec when programmed between Zero and 0.03% of Full Scale Current.

**Solution / Action:**

The new "Programming Accuracy" spec when programmed between Zero and 0.03% of Full Scale Current is the following:

6611C =	3.32mA
6612C =	1.53mA
6613C =	1.01mA
6614C =	0.631mA
66309B,D =	2.13mA
66111A =	2.13mA
66311A,B,D =	2.13mA
66312A =	1.53mA
6631B =	6.63mA
66332A =	3.32mA
6632B =	3.32mA
6633B =	1.53mA
6634B =	0.76mA

**Note:**

The New Spec = 1 LSB + The Old Spec

These units use a 12 Bit DAC;  $2^{12} = 4,096$   
 The No.of DAC Counts actually used = 3,774  
 1 LSB(mA)= Full Scale Current/3,774  
 LSB% =  $1 / 3,774 \times 100\% = \sim 0.03\%$

Total Counts