# S  E  R  V  I  C  E    N  O  T  E

SUPERSEDES: 66309B-02

## 66309B Mobile Communications DC Source

**Serial Number:** see below

## 66309B 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: | |
|---|---|
| **INFORMATION ONLY** | |

| AUTHOR: BM | ENTITY: 2100 | ADDITIONAL INFORMATION: |
|---|---|---|

**Agilent Technologies**

**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; $2^{12} = 4,096$          Total Counts
The No.of DAC Counts actually used = 3,774
1 LSB(mA)= Full Scale Current/3,774
LSB% = 1 / 3,774 x 100% = ~0.03%