

S E R V I C E N O T E

SUPERSEDES: 6612C-03

6612C Mobile Communications DC Source

Serial Number: see below

6612C 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: |

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