S E R V I C E N O T E

SUPERSEDES: 66309D-02

66309D Mobile Communications DC Source

Serial Number: see below

66309D 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:	ENTITY:	ADDITIONAL INFORMATION:
BM	2100	

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%