

Supersedes:
None**HP 5343A MICROWAVE FREQUENCY COUNTER****Series Prefix 2542****A3 BOARD MISCOUNT PROBLEM SOLUTION****P/N 05342-60042**

Some 5343A's between the serial numbers of 2510A02316 and 2510A02375 were shipped with a potential problem that exhibits itself as follows: input applied to low frequency input (10 Hz to 500 MHz) will be seen as a miscount or a count may be seen with no input that may clear up after warm up of an hour or more. Sensitivity is not an issue, as the miscount may occur at levels well above the minimum sensitivity.

The steps to fix this problem are as follows:

1. Replace *R31, *R40 and *R52 with 21.5 ohm resistors (P/N 0698-7196)
2. Place a ferrite bead (P/N 9170-0029) on the negative lead of electrolytic capacitor C21.

Note: It may necessary to replace C21 (0180-3084) due to the increased lead length needed to install a ferrite bead on the negative lead.

3. Electrically test the A3 board as usual. If the instrument miscounts, *R31 and *R40 can be lowered to as low as 8 ohms to reduce the gain of the amplifier and eliminate the miscount. If the instrument does not pass sensitivity specs INCREASE *R31 and *R40.

Note: *R31 and *R40 should be changed as a pair (*R31=*R40)

See other side for list of resistors.

D/OF/WO

07/86-02/AJ



FOR MORE INFORMATION, CALL YOUR LOCAL HP SALES OR SERVICE OFFICE or East (201) 265-5000 • Midwest (312) 255-9800 • South (404) 955-1500 • West (213) 970-7500 or (415) 968-9200 OR WRITE, Hewlett-Packard, 1820 Embarcadero, Palo Alto, California 94303. IN EUROPE, CALL YOUR LOCAL HP SALES OR SERVICE OFFICE OR WRITE, Hewlett-Packard S.A., 7, rue du Bois-du-lan Case Postale 365 CH 1217 Meyrin 1 — Geneva, Switzerland. IN JAPAN, Yokogawa-Hewlett-Packard Ltd., 1-27-15, Yabe Sagami-hara City, Kanagawa Prefecture, Japan 229.

Printed in U.S.A.

RESISTOR	P/N
10.0 ohm	0698-7188
12.1 ohm	0698-7190
13.3 ohm	0698-7191
15.0 ohm	0698-7690
16.2 ohm	0698-7193
16.7 ohm	0698-8651
27.4 ohm	0757-0387
34.8 ohm	0698-7201
38.3 ohm	0698-7202