

S E R V I C E N O T E

SUPERSEDES: 5334A-07

5334A 100 MHz Universal Counter**Serial Numbers:**

5334A-07A: Units with A1 Board prefix 93135
(Approximate Range: 2938A06600 / 2938A06670)

5334B-08A: Units with A1 Board prefix 93135
(Approximate Range: 2937A0930 / 2937A11450)

A1U22 Input Schmitt Amplifier Part Change**Duplicate Service Notes:**

5334A-07A
5334B-08A

To Be Performed By: Agilent-Qualified Personnel using ESD-safe Procedures

Parts Required: See text

Tools Required: De-soldering and ESD Workstation

Continued

DATE: June 1996

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:					
MODIFICATION RECOMMENDED					
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	Labor 1.0 Hour		
LOCATION CATEGORY:	<input checked="" type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT	USED PARTS:	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE		AGILENT RESPONSIBLE UNTIL: June 1998		
AUTHOR: CF	ENTITY: 0200	ADDITIONAL INFORMATION:			

Situation:

A1U22 was changed in February 1993 to a new part, and 8 resistors were changed. There is a potential reliability problem and some units may give out-of-specification readings of rise and fall time at low repetition rates.

Modification Procedure:

1. Remove A1U22 and 8 resistors. (See table)
2. Install original A1U22 and 8 resistors (See table). Note that A1R73 and A1R90 may have to be selected during performance testing.
3. Do the Channel A and B Sensitivity Offset Adjustments. (Par 5-16 and 5-17 of manual 05334-90004). If, after Step 6 in each procedure, you cannot get a stable count @ 1 MHz @ 8 mV, increase R90 (Chan A) or R73 (Chan B) and repeat Step 6.

Table of Component Values

REF DESC	OLD DESC	OLD #	NEW DESC	NEW #
A1U22	AD96698BQ	1826-1884	AM687ADL	1826-0426
A1R38 & R55	464 OHM 1% 1/8 W	0698-0082	1.47KOHM 1% 1/8W	0757-1094
A1R42 & R75	383 OHM 1% 1/8W	0698-3446	511 OHM 1% 1/8W	0757-0416
A1R43 & R76	100 OHM 1% 1/8W	0757-0401	511 OHM 1% 1/8W	0757-0416
A1R73* & R90*	10 OHM 1% 1/8W	0757-0346	75 OHM 1% 1/8W	0757-0398

* = selected, typical value shown. Select, if nec, in Step 3 above.