

MODIFICATION RECOMMENDED –  
CORRECTS MANUFACTURING OR DESIGN DEFECTS

**E8247C-12**

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

Supersedes:  
None

## E8247C PSG Analog Signal Generator

Serial Numbers: [0000A00000 / 9999Z99999]

### New power sensor to be used with Agilent N7820A PSG Calibration Application Software

E9300A H25      50 MHz to 24 GHz, -50 dBm to +30 dBm Power Sensor

## ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	X IMMEDIATELY <input type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	
LOCATION CATEGORY:	X CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input 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 type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY: Nov 2005	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: End of Support of Product	
AUTHOR: RDS	PRODUCT LINE: 15		
ADDITIONAL INFORMATION:			

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PRINTED IN U.S.A.

October 12, 2005



**Situation:**

The 20 GHz PSGs use an E4413A Power Sensor to measure Maximum Leveled Power and Power Level Accuracy. For power levels greater than 0 dBm the calibration factor uncertainty increases 0.5% per dB, which is too high for the application.

The E4413A and the E9304A Power Sensors are also limited to a maximum power of +20 dBm, which may not be adequate in the future.

**Solution/Action:**

Beginning with the next release of the PSG Calibration software in November 2005, an E9300A H25 power sensor will be required for testing 20 GHz PSGs.

The software will also support the E9304A H19, 9 kHz to 18 GHz, -50 dBm to +30 dBm. The E9300A H25 and the E9304A H19 are capable of measuring +30 dBm.