

MODIFICATION RECOMMENDED –  
CORRECTS MANUFACTURING OR DESIGN DEFECTS

**E8247C-06**

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

Supersedes:  
None

## E8247C PSG Analog Signal Generator

**Serial Numbers:**

**E8247C option 540 (40Ghz) only:**  
**US00000000 / US43320425 and**  
**MY00000000 / MY43321251**

**Procedure to resolve RF out power holes**

**To Be Performed By: Agilent-Qualified Personnel**

**Parts Required:**

P/N	Description	Qty.
<b>Front panel RF out</b>		
E8251-20035	Coupler/ RF out cable	1
E8251-20028	Attn/ RF out cable	1
<b>Rear panel RF out (Option 1EM)</b>		
E8251-20092	Coupler/ RF out cable	1
E8251-20072	Attn/ RF out cable	1

### ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input type="checkbox"/> ON SPECIFIED FAILURE  <input checked="" type="checkbox"/> AGREEABLE TIME	STANDARDS: LABOR: 3.0 Hours for std unit 13.0 Hours for 1E1 opt.	
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY: <input type="checkbox"/> RETURN <input checked="" 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:	
AUTHOR: SN	PRODUCT LINE: 15		
ADDITIONAL INFORMATION:			

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**Situation:**

The 2.4mm RF output cables E8251-20028, E8251-20035, E8251-20072 and E8251-20092 may have insufficient solder. When this occurs, power holes or spikes appear at the RF output of instrument.

**Solution/Action:**

If power holes or spikes appear, order a replacement RF cable. Replacement cable is dependent on Front or Rear RF out with and without attenuator. Check "Parts Required" for the correct part number. Replace the part and recalibrate the E8247C. Refer to PSG service guide for calibration.

Adjustments:

- For unit without attenuator:
  - 1) Run ALC Dynamic Calibration
  - 2) Run Power Flatness Calibration
- For unit with attenuator (1E1):
  - 1) Run ALC Dynamic Calibration
  - 2) Run Power Flatness Calibration
  - 3) Perform AT1 115 Attenuator Adjustment.

Performance tests:

- For unit with or without attenuator:
  - 1) Self tests
  - 2) Run Maximum Leveled Output Power
  - 3) Power Leveled Accuracy

GTLS/SPO inventory has been purged.