

Q347B-02A

# Modification Recommended Service Note

Supersedes:  
Q347B-02

## Q347B Millimeter-Wave Noise Source, Q-band, 33 to 50 GHz

Serial Numbers: MY44420159, MY44420162  
Manufacturing ID Number: N/A

Repair strategy change for Q347B Noise source

### Parts Required:

P/N	Description	Qty.
00346-60197	33 GHz to 50 GHz Q-Band noise source replacement	1

### ADMINISTRATIVE INFORMATION

ACTION	<input checked="" type="checkbox"/> ON SPECIFIED FAILURE	STANDARDS	
CATEGORY:	<input type="checkbox"/> AGREEABLE TIME	LABOR:	0.5 Hours
LOCATION	<input type="checkbox"/> CUSTOMER INSTALLABLE	SERVICE:	<input type="checkbox"/> RETURN
CATEGORY:	<input type="checkbox"/> ON-SITE (active On-site contract required)	INVENTORY:	<input type="checkbox"/> SCRAP
	<input checked="" type="checkbox"/> SERVICE CENTER		<input type="checkbox"/> SEE TEXT
	<input type="checkbox"/> CHANNEL PARTNERS		<input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL:	1-Apr-2022
	<input checked="" type="checkbox"/> Calibration Required	PRODUCT LINE:	wn
	<input type="checkbox"/> Calibration NOT Required	AUTHOR:	ls

### ADDITIONAL INFORMATION:

This service note communicates the repair strategy change for Keysight Technologies Q347B noise source from January 2019 onwards.

**Situation:**

The old diode (part of the Noise source bulkhead assembly) had been discontinued with no alternative sourcing identified.

The new noise source will have some slight differences in ENR value.

**Solution/Action:**

This service note serves as a notification to the listed serial numbers.

This is only a notification and no further action is required.

Table 1-1 – Identified Q347B serial numbers

MY44420159	MY44420162
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--If your unit serial number belongs to the above, in the event (low possibility & unlikely) where the noise source is deemed to be out of specification/ fail annual calibration, it will be replaced with brand new Q347B with a new (Different) serial number.

Refer to the [Appendix](#) for the ENR value comparison.

Should you require further information, contact Keysight Technologies service team.

## Appendix

Shown is the quick comparisons of ENR – Table 1-2

Shown in figure 1-1 is the typical ENR performance comparison for old and new diode.

For detailed and updated info, refer to Q347B Data Sheet & Operating and Service Manual in Keysight.com.

Table 1-2

Frequency Range	ENR (Serial Prefix MY/SG4442, 4015A, 3318A and below)	ENR (Serial Prefix MY/SG5810, MY/SG5823 and above)
33 to 42GHz	10 dB to 13 dB	14 to 17 dB
42 to 50GHz	6 dB to 12.5 dB	9 dB to 16 dB

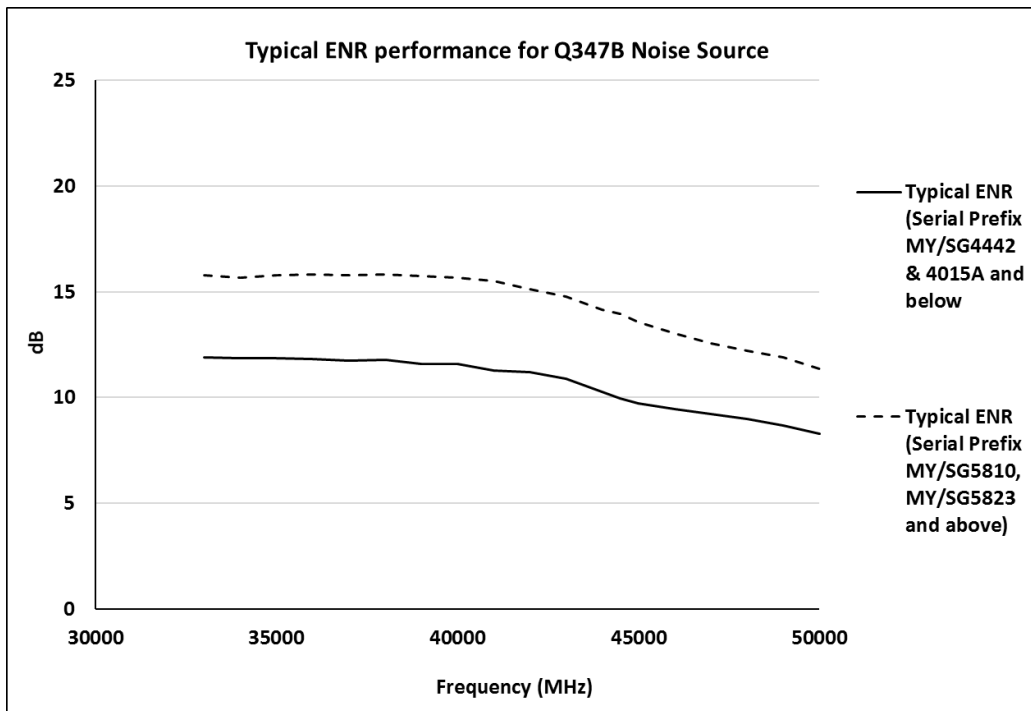


Figure 1-1

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### Revision History:

Date	Service Note Revision	Author	Reason for Change
26-Mar-2019	Q347B-02	ls	As Published
10-Apr-2019	Q347B-02A	ls	Added SPO Unit Exchange serial number of MY/SG5810