

Modification Recommended Service Note

Supersedes:
NONE

N4693D option 0DC - DC to 50 GHz Electronic Calibration Module (ECal)

Serial Numbers: See Table 1
Manufacturing ID Number: N/A

The Problem –

On certain N4693D units with Option 0DC, Reflection Tracking may exceed the specification by 0.05 dB at frequencies below 200MHz when measuring high reflective devices.

Parts Required:

None

ADMINISTRATIVE INFORMATION

ACTION	<input type="checkbox"/> ON SPECIFIED FAILURE	STANDARDS			
CATEGORY:	<input checked="" type="checkbox"/> AGREEABLE TIME	LABOR:	3.5 Hours		
LOCATION	<input checked="" type="checkbox"/> SERVICE CENTER	SERVICE:	<input type="checkbox"/> RETURN	USED	<input type="checkbox"/> RETURN
CATEGORY:	<input type="checkbox"/> ON-SITE (active On-site contract required)	INVENTORY:	<input type="checkbox"/> SCRAP	PARTS:	<input type="checkbox"/> SCRAP
	<input type="checkbox"/> CHANNEL PARTNERS		<input type="checkbox"/> SEE TEXT		<input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL:	2 Sept 2022		
	<input checked="" type="checkbox"/> Calibration Required	PRODUCT LINE:	PLWN		
	<input type="checkbox"/> Calibration NOT Required	AUTHOR:	CT		

ADDITIONAL INFORMATION:
Affect N4693D with option 0DC only

Situation:

It was identified that certain units of N4693D with option ODC were affected by an error in the calibration algorithm. For the units affected by this calibration error, the Reflection Tracking may exceed the specification by 0.05 dB at frequencies below 200MHz. The error would only be apparent when measuring highly reflective devices at frequencies below 200MHz. Recalibration at Keysight's service center will resolve the issue and ensure optimized and accurate data is loaded into the unit. If your application does not involve taking any measurements within the impacted frequency range on highly reflective devices, you can continue to use the ECal unit with its currently characterized data. At your next calibration cycle, the unit will be recharacterized and the issue will be resolved.

Solution/Action:

1. Return the ECal unit to the nearest Keysight service center for re-calibration.
2. A new calibration report will be generated.

Table 1 Serial Number

Serial Number			
MY59410106	MY59410250	MY59410355	MY59410487
MY59410107	MY59410256	MY59410369	MY59410489
MY59410152	MY59410260	MY59410373	MY59410490
MY59410156	MY59410261	MY59410384	MY59410491
MY59410169	MY59410284	MY59410390	MY59410513
MY59410171	MY59410297	MY59410413	MY59410514
MY59410175	MY59410298	MY59410417	MY59410515
MY59410176	MY59410309	MY59410420	MY59410517
MY59410187	MY59410310	MY59410425	MY59410523
MY59410197	MY59410313	MY59410448	MY59410541
MY59410200	MY59410320	MY59410454	MY59410553
MY59410217	MY59410321	MY59410456	MY59410556
MY59410227	MY59410326	MY59410457	MY59410579
MY59410240	MY59410327	MY59410465	MY59410612
MY59410241	MY59410338	MY59410475	SG59410106
MY59410244	MY59410349	MY59410478	SG59410109
MY59410249	MY59410350	MY59410479	SG59410110

Revision History:

Date	Service Note Revision	Author	Reason for Change
2 Sep 2021	01	Lam CT	As Published
1 Mar 2023	02	Lam CT	Update Labor Hour

