

Modification Recommended Service Note

Supersedes:
NONE

N4690D option ODC - DC to 18 GHz Electronic Calibration Module (ECal)

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

The Problem –

On certain N4690D units with Option ODC, 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 N4690D with option ODC only

Situation:

It was identified that certain units of N4690D with option 0DC 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			
MY59410134	MY59410193	SG59410120	SG59410126
MY59410148	MY59410198	SG59410121	SG59410127
MY59410147	MY59410199	SG59410122	SG59410128
MY59410153	MY59410200	SG59410123	SG59410129
MY59410156	SG59410104	SG59410124	SG59410130
MY59410192	SG59410114	SG59410125	SG59410131

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