

Modification Recommended Service Note

Supersedes:
NONE

AE6943A MATEnet to SMA Automotive Adapter

Serial Numbers: WT16539 to WT23282
Manufacturing ID Number: 1101171000

The Problem –Potential characteristic impedance differential mode (CIDM) measurement failure on AE6943A

Parts Required:

P/N	Description	Qty.
AE6943A-FG	SMA to MATEnet Automotive Adapter	x1
AE6943-66600	SMA to MATEnet Adapter PCA	x1

ADMINISTRATIVE INFORMATION

ACTION	<input checked="" type="checkbox"/> ON SPECIFIED FAILURE	STANDARDS	
CATEGORY:	<input checked="" type="checkbox"/> AGREEABLE TIME	LABOR:	1.0 Hours
LOCATION	<input checked="" type="checkbox"/> SERVICE CENTER	SERVICE:	<input type="checkbox"/> RETURN
CATEGORY:	<input type="checkbox"/> ON-SITE (active On-site contract required)	INVENTORY:	<input type="checkbox"/> SCRAP
	<input type="checkbox"/> CHANNEL PARTNERS		<input checked="" type="checkbox"/> SEE TEXT
USED	<input checked="" type="checkbox"/> RETURN	PARTS:	<input type="checkbox"/> SCRAP
			<input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL:	30 Jun 2024
	<input type="checkbox"/> Calibration Required	PRODUCT LINE:	SP
	<input checked="" type="checkbox"/> Calibration NOT Required	AUTHOR:	MC.Lim

ADDITIONAL INFORMATION:

Situation:

We have identified a known impedance issue with the AE6943A. The characteristic impedance differential mode (CIDM) measurement of AE6943A is not meeting requirement of $100 \Omega \pm 5 \%$ at a rise time of 50 ps.

This will affect performance requirements of the link test measurements that use the AE6943A, like insertion loss (IL), return loss (RL), etc.

Reference document:

Open Alliance TC9 UTP 2.0 Channel and Components 2.0 Requirements for 1000BASE-T1 Link Segment Type A.

Solution/Action:

Contact customer service center for help to validate if there is impedance failure in AE6943A adapter. If yes, Keysight will proceed to send a fresh unit for replacement. Warranty remains no change.

Revision History:

Date	Service Note Revision	Author	Reason for Change
13 Jul 2023	01	MC.Lim	As Published