

Issue Details and Description:

TI needs detailed information in order to duplicate the issue on a stand-alone TI part in the lab.

Important: Please provide schematics of the circuit along with measurement results & wave forms separately by email!

TI part # OPT3006YMFT (Biamp 262.0831)
marked with a "1" on top side of component
are failing final test for light sensitivity.

The board and component are exposed to a light source and readings are taken. A passing unit would show a change in reading reacting to the light. However, no changes are observed when a fail unit is tested.

Components marked with a "0" instead of "1" work and pass the light sensitivity testing.

There have been no other external differentiating factors found to help explain the difference in testing success.

Failure Isolation & Application Information from the Customer:

What is the condition of the suspected failing TI part(s)?	<input checked="" type="checkbox"/> Repeatabl	<input type="checkbox"/> Sporadic
Was the observed issue verified on TI part level outside the application?	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	
Did replacing the suspect TI part with a new TI part resolve the issue?	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	
Was the suspect TI part installed onto another passing board causing that board to fail (A-B-A swap)? Means did the failure follow the suspect TI part? <i>This is an essential part of the troubleshooting analysis. Pls ensure this has been performed!</i>	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	
Is the suspect TI part used in more than one location on the circuit board?	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	
If yes, how many locations?		
Which locations are causing the issue?		
Is this a new application?	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	
When was TI part designed into this application?		
Was the application/design changed or modified recently?	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	
Did the same issue occur in the past?	<input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No	
If yes, please provide the reference TI QTS# or National PQA#.		

Programmable Products

Is the TI part protected by a Security Key Code?
Which Firmware Version is used?

Yes / No

Low-Power RF (Chipcon) Radio Products

TI Part Register Settings?

NA

MSP430™ Ultra-Low Power 16-Bit Microcontrollers:

JTAG access?

Yes / No

Security fuse blown? If yes please provide the customer code!

Yes / No

In case a FRAM TI part needs to be replaced on an application board the customer must be aware that the memory content can be changed by the de-soldering process. Therefore it is recommended to analyze any wrong application behavior directly on the application board or read out the memory content of the TI part before de-soldering.