



Product Change Notification



Product Group: OPT/Fri Aug 20, 2021/PCN-OPT-1197-2021-REV-0

Change of PCB for TFBS4650.../TFBS4711... Series (IRDC)

DESCRIPTION OF CHANGE: Introduction of a new PCB from a different supplier. No change of form/fit/function. No change of customers handling/assembly/inspection process required.

REASON FOR CHANGE: To increase the security of long-term supply of our IRDC products.

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE: This material change does not impact the performance of the Product. The new PCB is qualified according to highest industrial and environmental Standards. The minimum ambient temperature range (operating) will be changed from -30degree celsius to -25degree celsius.

We recommended to order samples to test the parts in your application.

PART NUMBERS/SERIES/FAMILIES AFFECTED: Please see materials list on the succeeding page.

VISHAY BRAND(s): Vishay Semiconductors

TIME SCHEDULE:

Start Shipment Date: Tue Feb 1, 2022

SAMPLE AVAILABILITY: samples available 01-Sep-2021

PRODUCT IDENTIFICATION: via datecode

QUALIFICATION DATA: Q-report available in ww34.

This PCN is considered approved, without further notification, unless we receive specific customer concerns before Sun Oct 17, 2021 or as specified by contract.

ISSUED BY: Rainer Hauschildt, Rainer.Hauschildt@vishay.com

For further information, please contact your regional Vishay office.

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ONE OF THE WORLD'S LARGEST MANUFACTURERS OF DISCRETE SEMICONDUCTORS AND PASSIVE COMPONENT



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TFBS4650-TR1	TFBS4650-TR3	TFBS4650-TR4	TFBS4650-TT3	TFBS4650E-TR1
TFBS4650E-TR3	TFBS4650E-TT1	TFBS4650E-TT3	TFBS4711-TR1	TFBS4711-TR3
TFBS4711-TT1	TFBS4711D-TT1	TFBS4711E-TR1	TFBS4711E-TR3	TFBS4711E-TT1
TFBS4711E-TT3	TFBS4711H-TR1			

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Change of PCB for TFBS4650.../ TFBS4711...Series

Vishay Opto has published a PCN announcing the change of the PCB to increase the security of long-term supply of our IRDC products. The Product will have same form/fit/function, only the min. ambient temperature range (operating) will be changed from currently -30°C to -25°C. It is not expected that any difference in performance will be observed. Nevertheless we recommend to test samples in customers application.

Important details to be recognized:

A. Material changes

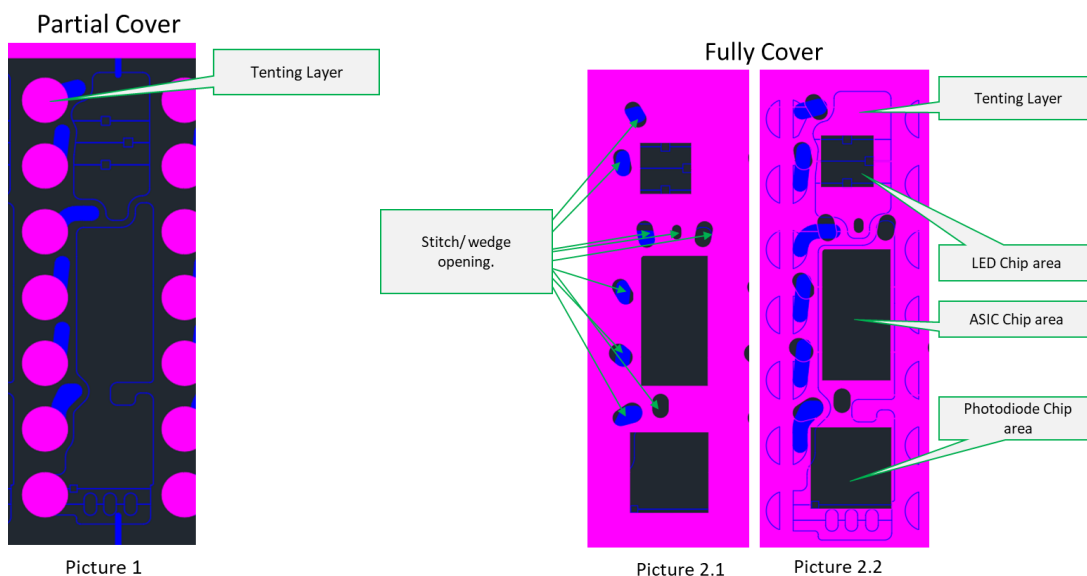
Before (current PCB)

1. Au plating
2. Partial tenting layer
3. Full Moon tunnel
4. Tenting Layer Material AUS402

After (new PCB)

1. Nickel Palladium Gold plating
2. Full tenting layer
3. 1/2 Moon tunnel
4. Tenting Layer Material AUS410

A full tenting layer will cover inactive area on top of the PCB to have better epoxy coverage and epoxy bridging control over Die Attach process:



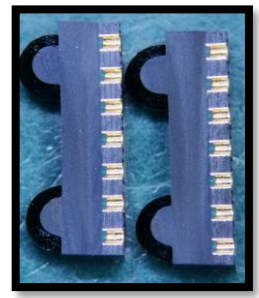
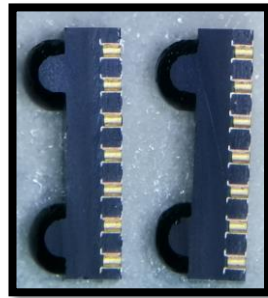
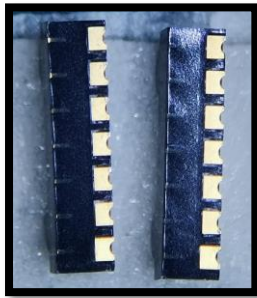
The new PCB meets all standard environmental requirements (ROHS compliant, Vishay Green).

B. IRDC package

It is not necessary to change the pad layout in customers application, because the fit/form/function is the same. The color of the pads might be slightly different, for example:

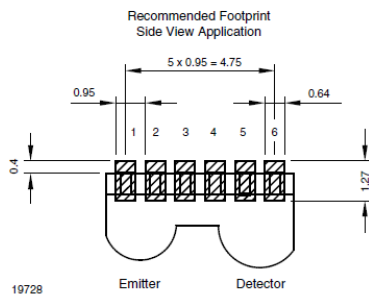
TFBS465... with current PCB:

TFBS465... with new PCB:

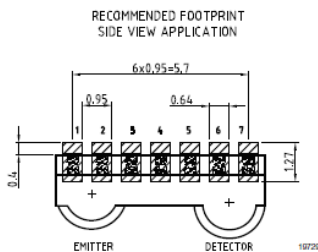


The existing datasheets with recommended footprints remain unchanged:

TFBS4711...



TFBS4650...





FAQ:

Q: Are there any changes for products in production?

A: The PCB will be changed for TFBS4650... and TFBS4650... Series (see detailed material list of PCN).

Q: Are there any technical differences (form/fit/function) expected?

A: No change of form/fit/function, only the min. ambient temperature range (operating) will be changed from currently -30°C to -25°C.

The max. ambient temperature range (operating) remains at +85°C.

Q: Are there any necessary changes of customers handling/assembly/inspection process required?

A: No changes required.

Q: Which qualification standards applied for this change?

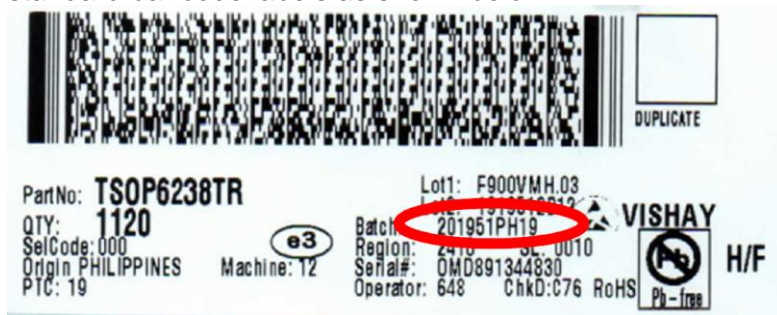
A: Non-Automotive standards.

Q: When do we plan to implement the new materials in production?

A: Starting ww05 2022.

Q: How can the customer distinguish between old and new product?

A: The PCN announces a changeover date. This changeover date will be mentioned on the standard bar code labels as shown below:



Q: Why has Vishay introduced these changes?

A: To increase the security of long-term supply and to improve the quality/design of the product.

Q: Are samples available?

A: Yes, samples can be ordered by contacting me or our Regional Marketing colleagues.

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