



Product Change Notification



Product Group: OPT/Tue Nov 8, 2022/PCN-OPT-1240-2022-REV-0

Change of Cast IR Receivers materials

DESCRIPTION OF CHANGE: -Introduction of a second source epoxy material for all Cast packages.

-Introduction of a new in-house designed IR Receiver IC for "Mneme" and

"Methone" IC parts:

The Cyllene 2 will replace the "Mneme" and "Methone" ICs in existing Product Series without a name change.

It will provide similar electrical and optical characteristics, at

nearly 50 percent less current consumption. Besides it provides the best receiving range in bright ambient. The mechanical dimensions remain unchanged.

We recommend to test the product in customers application.

REASON FOR CHANGE: - Introduction of a second source epoxy material:

Offer short lead times in changing market environments and avoid line downs at our customer side (Supply Risk Reduction).

-Introduction of new Cyllene 2 IC:

The production of the existing IC will end.

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE: No change on Quality/Reliability. Similar electrical and optical characteristics.

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

VISHAY BRAND(s): Vishay Semiconductors

TIME SCHEDULE:

Start Shipment Date: Sun Jan 29, 2023

SAMPLE AVAILABILITY: immediately

PRODUCT IDENTIFICATION: via date code

QUALIFICATION DATA: Q-Report is available.

This PCN is considered approved, without further notification, unless we receive specific customer concerns before Sun Dec 11, 2022 or as specified by contract.

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

For further information, please contact your regional Vishay office.

CONTACT INFORMATION:

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



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?HS0011438	HS0011638	HS0038A2D	HS0038A4D	TSOP11136
TSOP11138	TSOP11140	TSOP11156	TSOP11240	TSOP11256
TSOP11336	TSOP11338	TSOP11340	TSOP11356	TSOP11436
TSOP11438	TSOP11440	TSOP11456	TSOP11536	TSOP11538
TSOP11540	TSOP11556	TSOP11636	TSOP11638	TSOP11640
TSOP11656	TSOP31130	TSOP31133	TSOP31136	TSOP31138
TSOP31140	TSOP31156	TSOP31230	TSOP31230GL1	TSOP31233
TSOP31236	TSOP31236SB1	TSOP31238	TSOP31238SE1	TSOP31238SS1BS12
TSOP31238UU1	TSOP31238XG1	TSOP31240	TSOP31256	TSOP31330
TSOP31333	TSOP31336	TSOP31338	TSOP31340	TSOP31356
TSOP31436	TSOP31438	TSOP31438SB1	TSOP31456	TSOP31530
TSOP31533	TSOP31536	TSOP31538	TSOP31540	TSOP31556

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Change of Cast IR Receiver materials

Vishay Opto has published PCN-OPT-1240-2022, announcing two material changes:

- The introduction of a second source Epoxy material **for all Cast products**.
- The Introduction of a new in-house designed IR Receiver IC for parts currently **using "Mneme" and "Methone" IC's**.

FAQ:

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

A: Mechanically there are no changes.

Epoxy: The spectral sensitivity graph in the datasheet remains unchanged. The optical characteristic of the second source Epoxy is same as the existing Epoxy.

IC: The Cyllene 2 IC will provide similar electrical and optical characteristics, at nearly 50 percent less current consumption. Besides it provides the best receiving range in bright ambient (DC light).

Please contact our application support in case you need further details or any design in support: IRR@Vishay.com .

Q: Will there be any change of the product name?

A: No.

Q: When do we plan to implement these changes in production?

A: Please refer to the start shipment date mentioned in the PCN.

Q: Why has Vishay introduced these changes?

A: -Introduction of a second source epoxy material:

Offer short lead times in changing market environments and avoid line downs at our customer side (Supply Risk Reduction).

-IC: The existing IC supplier has announced to end production. To assure a long-term product availability, Vishay has designed a new IC with similar electrical and optical characteristics, using the latest chip technology of the world's leading Chip Foundry.

Q: Are datasheets available?

A: Yes. The updated datasheets are available on our website 15th Nov 2022.

The header will state that the datasheet content is in accordance with this PCN.

Q: Which parts are concerned with which changes?

A: The following table provides an overview of the changes per part number:



Part Number	2nd source Epoxy	New IC	Part Number	2nd source Epoxy	New IC	Part Number	2nd source Epoxy	New IC
HS0011438	x	x	TSOP11556	x	x	TSOP31240	x	
HS0011638	x	x	TSOP11636	x	x	TSOP31256	x	
HS0038A2D	x		TSOP11638	x	x	TSOP31330	x	
HS0038A4D	x		TSOP11640	x	x	TSOP31333	x	
TSOP11136	x	x	TSOP11656	x	x	TSOP31336	x	
TSOP11138	x	x	TSOP31130	x		TSOP31338	x	
TSOP11140	x	x	TSOP31133	x		TSOP31340	x	
TSOP11156	x	x	TSOP31136	x		TSOP31356	x	
TSOP11240	x	x	TSOP31138	x		TSOP31436	x	
TSOP11256	x	x	TSOP31140	x		TSOP31438	x	
TSOP11336	x	x	TSOP31156	x		TSOP31438SB1	x	
TSOP11338	x	x	TSOP31230	x		TSOP31456	x	
TSOP11340	x	x	TSOP31230GL1	x		TSOP31530	x	
TSOP11356	x	x	TSOP31233	x		TSOP31533	x	
TSOP11436	x	x	TSOP31236	x		TSOP31536	x	
TSOP11438	x	x	TSOP31236SB1	x		TSOP31538	x	
TSOP11440	x	x	TSOP31238	x		TSOP31540	x	
TSOP11456	x	x	TSOP31238SE1	x		TSOP31556	x	
TSOP11536	x	x	TSOP31238SS1BS12	x				
TSOP11538	x	x	TSOP31238UU1	x				
TSOP11540	x	x	TSOP31238XG1	x				

Q: How can the customer distinguish products including these changes?

A: The PCN announces a changeover date (production work week). The standard bar code label contains the production week as shown below (Batch 202222PH19→ produced in ww22 2022). A green sticker will be added to the box label for shipments which include the changes:



Q: Do you recommend to test the product in customers application?

A: Yes. We recommend to order samples and test the product in customers application. Samples can be ordered by contacting me or our Business Marketing colleagues mentioned below.

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