



# Product Change Notification



Product Group: OPT/Thu Aug 4, 2022/PCN-OPT-1224-2022-REV-0

## Introduction of new Cyllene2 IC

**DESCRIPTION OF CHANGE:** Introduction of a new in-house designed IR Receiver IC:

The Cyllene 2.

This IC uses the latest Chip Technology of the worlds leading IC Foundry. The Cyllene 2 will replace the "Mneme" and "Methone" IC 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:** The existing external IC Supplier has announced to end production. To assure a long-term product availability of IR Receivers, Vishay developed an inhouse IC in cooperation with the worlds leading Chip Foundry.

**EXPECTED INFLUENCE ON QUALITY/RELIABILTY/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: Mon Nov 14, 2022

**SAMPLE AVAILABILITY:** Samples are available upon request.

**PRODUCT IDENTIFICATION:** via date code

**QUALIFICATION DATA:** Qual Pack is available ww33 2022

**This PCN is considered approved, without further notification, unless we receive specific customer concerns before Mon Sep 19, 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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HS0014438	HS0014638	HS0015438TR	HS0015438TT	HS0015438XVTR
HS0038HM4TR	HS0038HM4TT	HS0038HM4XVTR	HS0038HM6TT	HS57438TT1
HS77438TR	HS77438TT	HWXX6438TR	HWXX6438TT	HWXX77038
HWXX77038TR	HWXX77038TT	HWXX77438TR	HWXX77438TT	TSOP12130
TSOP12133	TSOP12136	TSOP12138	TSOP12140	TSOP12156
TSOP12230	TSOP12233	TSOP12236SJ1	TSOP12236SP1	TSOP12236YA1
TSOP12238SJ1	TSOP12240	TSOP12256	TSOP12256SB1	TSOP12330
TSOP12333	TSOP12336	TSOP12336IV1	TSOP12336SS1F	TSOP12336SS1FBS12Z
TSOP12336YA1	TSOP12336YA1F	TSOP12338	TSOP12338LL1	TSOP12338LL1F
TSOP12338YA1	TSOP12340	TSOP12356	TSOP12430	TSOP12433
TSOP12433YA1	TSOP12436	TSOP12438	TSOP12438CD1F	TSOP12438IV1
TSOP12438RF1	TSOP12438SA1F	TSOP12438SI1F	TSOP12438SS1F	TSOP12438VI1
TSOP12438WE1	TSOP12438YA1	TSOP12440	TSOP12456	TSOP12530
TSOP12533	TSOP12536	TSOP12538	TSOP12538DL1	TSOP12538LL1
TSOP12540	TSOP12556	TSOP12630	TSOP12633	TSOP12636
TSOP12638	TSOP12640	TSOP12656	TSOP14130	TSOP14133
TSOP14136	TSOP14138	TSOP14140	TSOP14156	TSOP14230
TSOP14233	TSOP14236	TSOP14236SO1F	TSOP14236SS1F	TSOP14238
TSOP14238LL1	TSOP14238RF1	TSOP14238SB1	TSOP14238SO1	TSOP14238SP1
TSOP14238SS1F	TSOP14238ST1	TSOP14238ZC1	TSOP14240	TSOP14240SJ1
TSOP14256	TSOP14330	TSOP14330SS1BS12	TSOP14333	TSOP14336
TSOP14336JK1F	TSOP14336SI1F	TSOP14338	TSOP14338DF1F	TSOP14338DK1F
TSOP14338JH1	TSOP14338JK1	TSOP14338JK1F	TSOP14338SI1F	TSOP14338SS1F
TSOP14338VI1F	TSOP14338VM1	TSOP14340	TSOP14356	TSOP14430
TSOP14433	TSOP14436	TSOP14438	TSOP14438RF1	TSOP14438SJ1
TSOP14438SS1F	TSOP14438ST1	TSOP14438VI1F	TSOP14438YA1	TSOP14440
TSOP14456	TSOP14530	TSOP14533	TSOP14536	TSOP14536TE1F
TSOP14538	TSOP14540	TSOP14556	TSOP14630	TSOP14633
TSOP14636	TSOP14638	TSOP14638QJ1	TSOP14640	TSOP14656
TSOP2130	TSOP2133	TSOP2136	TSOP2136LL1	TSOP2136NN1
TSOP2136SA1	TSOP2136ST1	TSOP2136UH1	TSOP2136VI1	TSOP2136YA1
TSOP2138	TSOP2138LL1	TSOP2138LL1F	TSOP2138QJ1	TSOP2138SA1
TSOP2138SB1	TSOP2138SS1BS12	TSOP2138UH1	TSOP2138VI1	TSOP2138YA1
TSOP2140	TSOP2156	TSOP2156SA1	TSOP2156SB1	TSOP2156YA1
TSOP2230	TSOP2230UH1	TSOP2233	TSOP2233UH1	TSOP2233VI1
TSOP2236	TSOP2236AY1	TSOP2236KU1	TSOP2236LL1	TSOP2236QJ1
TSOP2236SA1	TSOP2236SJ1	TSOP2236SP1	TSOP2236UH1	TSOP2236VI1
TSOP2236YA1	TSOP2238	TSOP2238AY1	TSOP2238NN1	TSOP2238QJ1
TSOP2238SB1	TSOP2238SS1BS12Z	TSOP2238VI1	TSOP2238WE1	TSOP2238WN1
TSOP2238YA1	TSOP2240	TSOP2240PM1	TSOP2240RF1	TSOP2240SB1
TSOP2240WE1	TSOP2240YA1	TSOP2256	TSOP2256AY1	TSOP2256IV1
TSOP2256KU1	TSOP2256LL1	TSOP2256RF1	TSOP2256SB1	TSOP2256SS1BS12
TSOP2256TE1	TSOP2256UH1	TSOP2256VI1	TSOP2256WE1	TSOP2256YA1
TSOP2256ZC1	TSOP2330	TSOP2333	TSOP2336	TSOP2336IV1
TSOP2336YA1F	TSOP2338	TSOP2338LL1F	TSOP2338RF1	TSOP2338SS1OS12
TSOP2338YA1	TSOP2340	TSOP2356	TSOP2430	TSOP2433
TSOP2436	TSOP2438	TSOP2438KU1	TSOP2438RF1	TSOP2438SA1F
TSOP2438SB1	TSOP2438SJ1	TSOP2438WE1	TSOP2440	TSOP2456
TSOP2456DE1	TSOP2536	TSOP2538	TSOP2540	TSOP2556
TSOP32336SS1FBS12Z	TSOP4130	TSOP4130SS1BS12	TSOP4133	TSOP4136
TSOP4136LL1	TSOP4136SB1	TSOP4136SI1	TSOP4136ST1	TSOP4136UH1
TSOP4136YA1	TSOP4136ZC1	TSOP4138	TSOP4138JH1	TSOP4138JK1
TSOP4138LL1	TSOP4138SB1	TSOP4138SP1	TSOP4138SS1BS12	TSOP4138SS1F
TSOP4138SS1N	TSOP4138SS1S	TSOP4138ST1	TSOP4138UH1	TSOP4138YA1
TSOP4140	TSOP4140SB1	TSOP4140SP1	TSOP4156	TSOP4330
TSOP4333	TSOP4336	TSOP4338	TSOP4338JK1	TSOP4338JK1F

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TSOP4338SB1	TSOP4338SS1F	TSOP4338SS1OS12	TSOP4338V11F	TSOP4340
TSOP4356	TSOP4430	TSOP4433	TSOP4436	TSOP4436CZ1
TSOP4436V11	TSOP4438	TSOP4438CZ1	TSOP4438DA1	TSOP4438DB1F
TSOP4438DK1F	TSOP4438DN1F	TSOP4438QJ1	TSOP4438RF1	TSOP4438SJ1
TSOP4438SO1	TSOP4438SS1BS12	TSOP4438SS1BS12Z	TSOP4438SS1F	TSOP4438ST1
TSOP4438UH1	TSOP4438V11F	TSOP4438YA1	TSOP4438ZC1	TSOP4440
TSOP4456	TSOP4536	TSOP4538	TSOP4538SP1	TSOP4540
TSOP4556	TSOP4830	TSOP4830SS1BS12	TSOP4830SS1F	TSOP4830TE1
TSOP4833	TSOP4833SS1BS12Z	TSOP4836	TSOP4836DI1	TSOP4836LL1
TSOP4836RF1	TSOP4836SB1	TSOP4836SI1	TSOP4836SP1	TSOP4836SS1BS12
TSOP4836SS1F	TSOP4836ST1	TSOP4836YA1	TSOP4836ZC1	TSOP4838
TSOP4838AY1	TSOP4838CZ1	TSOP4838DL1	TSOP4838LL1	TSOP4838QJ1
TSOP4838RF1	TSOP4838SB1	TSOP4838SJ1	TSOP4838SO1	TSOP4838SS1BS12Z
TSOP4838SS1F	TSOP4838ST1	TSOP4838UH1	TSOP4838V11	TSOP4838YA1
TSOP4840	TSOP4840QJ1	TSOP4840RF1	TSOP4840SB1	TSOP4840SB1S
TSOP4840SI1	TSOP4840SJ1	TSOP4840ZC1	TSOP4856	TSOP4856ON1
TSOP4856QJ1	TSOP4856RF1	TSOP4856SB1	TSOP4856SS1BS12	TSOP4856SS1F
TSOP4856SS1N	TSOP4856YA1	TSOP57236HTT1	TSOP57236TT1	TSOP57238HTT1
TSOP57238TT1	TSOP57240HTT1	TSOP57240TT1	TSOP57256HTT1	TSOP57256TT1
TSOP57336HTT1	TSOP57336TT1	TSOP57338HTT1	TSOP57338TT1	TSOP57338TT1
TSOP57340HTT1	TSOP57356ETT1	TSOP57356HTT1	TSOP57356TT1	TSOP57436ETT1
TSOP57436HTT1	TSOP57436TT1	TSOP57438ETT1	TSOP57438HTT1	TSOP57438TT1
TSOP57440HTT1	TSOP57440TT1	TSOP57456HTT1	TSOP57456TT1	TSOP57536HTT1
TSOP57536TT1	TSOP57538HTT1	TSOP57538TT1	TSOP57540HTT1	TSOP57556HTT1
TSOP57556TT1	TSOP6130TR	TSOP6130TT	TSOP6133TR	TSOP6133TT
TSOP6136TR	TSOP6136TT	TSOP6138FTR	TSOP6138FTT	TSOP6138NTR
TSOP6138NTT	TSOP6138TR	TSOP6138TT	TSOP6140TR	TSOP6140TT
TSOP6156TR	TSOP6156TT	TSOP6230TR	TSOP6230TT	TSOP6233TR
TSOP6233TT	TSOP6236TR	TSOP6236TT	TSOP6238FTR	TSOP6238FTT
TSOP6238TR	TSOP6238TT	TSOP6240TR	TSOP6240TT	TSOP6256TR
TSOP6256TT	TSOP6330TR	TSOP6330TT	TSOP6333TR	TSOP6333TT
TSOP6336TR	TSOP6336TT	TSOP6338TR	TSOP6338TT	TSOP6340TR
TSOP6340TT	TSOP6356TR	TSOP6356TT	TSOP6430TR	TSOP6430TT
TSOP6433TR	TSOP6433TT	TSOP6436TR	TSOP6436TT	TSOP6438FTR
TSOP6438FTT	TSOP6438TR	TSOP6438TT	TSOP6440TR	TSOP6440TT
TSOP6456FTR	TSOP6456TR	TSOP6456TT	TSOP6536TR	TSOP6536TT
TSOP6538TR	TSOP6538TT	TSOP6540TR	TSOP6540TT	TSOP6556TR
TSOP6556TT	TSOP6940TT	TSOP77238TR	TSOP77238TT	TSOP77240SWTR
TSOP77256TR	TSOP77256TT	TSOP77321TR	TSOP77321TT	TSOP77333WTT
TSOP77336TR	TSOP77336TT	TSOP77338FTR	TSOP77338FTT	TSOP77338TR
TSOP77338TT	TSOP77356TR	TSOP77356TT	TSOP77433TT	TSOP77436TR
TSOP77436TT	TSOP77436WTR	TSOP77436WTT	TSOP77438APTR	TSOP77438APTT
TSOP77438FTR	TSOP77438FTT	TSOP77438FWTT	TSOP77438TR	TSOP77438TT
TSOP77438WTR	TSOP77456TT	TSOP77456WTR	TSOP77536TR	TSOP77536TT
TSOP77538FTR	TSOP77538TR	TSOP77538TT	TSOP77556TR	TSOP77556TT
TSOP77940WTR	TSSP14038	TSSP15038TR	TSSP16038TR	TSSP17038HTT1
TSSP17038TT1	TSSP4038	TSSP4038CZ1XB	TSSP4038DL1	TSSP4038LL1
TSSP4038SD1	TSSP4038SK1	TSSP4038SS1BS12Z	TSSP4038SS1XB	TSSP4038ST1
TSSP4056	TSSP4056SS1XB	TSSP4P38	TSSP57038ETT1	TSSP57038HTT1
TSSP57038TT1	TSSP57P38TT1	TSSP6038TR	TSSP6038TT	TSSP6056TT
TSSP6P38TR	TSSP6P38TT	TSSP77038ETR	TSSP77038TR	TSSP77038TT
TSSP77P38TR	TSSP77P38TT			

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## Introduction of new CYLLENE 2 IC

Vishay Opto has published PCN-OPT-1224-2022, announcing the introduction of a new in-house designed IC for existing product series. This IC uses the latest chip technology of the worlds leading Chip Foundry and provides improved performance.

### FAQ:

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

A: Mechanically there are no changes.

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](mailto:IRR@Vishay.com) .

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

A: No. The new IC will be introduced at existing product series without a name change.

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

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

**Q: How can the customer distinguish products using existing IC or new IC?**

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 products using the new Cyllene 2 IC:



**Q: Why has Vishay introduced a new IC?**

A: 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 worlds leading Chip Foundry.



**Q: Are datasheets available?**

A: Yes. The updated datasheets are available on our website 15<sup>th</sup> August 2022.

**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.

**THE AMERICAS**

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