



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/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: 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 | TSOP4338VI1F | TSOP4340 |
| TSOP4356 | TSOP4430 | TSOP4433 | TSOP4436 | TSOP4436CZ1 |
| TSOP4436VI1 | TSOP4438 | TSOP4438CZ1 | TSOP4438DA1 | TSOP4438DB1F |
| TSOP4438DK1F | TSOP4438DN1F | TSOP4438QJ1 | TSOP4438RF1 | TSOP4438SJ1 |
| TSOP4438SO1 | TSOP4438SS1BS12 | TSOP4438SS1BS12Z | TSOP4438SS1F | TSOP4438ST1 |
| TSOP4438UH1 | TSOP4438VI1F | 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 | TSOP4838VI1 | 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 | TSOP57338ETT1 | TSOP57338HTT1 | 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.

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 15th 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.

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