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Introduction of a new IC for existing Aether products

For further information, please contact your regional Vishay office.

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Description of Change: We are pleased to announce the introduction of the new in-house designed Cyllene 2 IC. The new IC uses the latest Chip Technology of the world's leading IC Foundry.

The Cyllene 2 IC will replace the "Aether" IC in existing Product Series without a name change and without any mechanical changes.

The Cyllene 2 IC provides an improved sensitivity in dark ambient, a wider supply voltage range (2.0-5.5V vs. 2.5-5.5V) and a better robustness against supply voltage ripple (PSRR) and Wi-Fi interference.

It is required to test the product in customers application.

Reason for Change: Eleven years after market introduction, the Aether IC has reached the end of its product life time. To assure a long-term product availability of IR Receivers and to meet latest technical requirements, Vishay has developed the Cyllene 2 IC in cooperation with the world's leading Chip Foundry.

Expected Influence on Quality/Reliability/Performance: No change in 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 Apr 28, 2024

Sample Availability: Samples are available upon request.

Product Identification: via date code

Qualification Data: Qual Pack will be available 1st February.

This PCN is considered approved, without further notification, unless we receive specific customer concerns before Sun Mar 3,



Product Change Notification



Product Group: OPT/Thu Jan 25, 2024/PCN-OPT-1308-2024-REV-0

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2024 or as specified by contract.

Issued By: Rainer Hauschildt, rainer.hauschildt@vishay.com



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HS0038A2D	HS0038A4D	HS0038B3D	HS0038B4D	HS0038B4DSB1
HS0038BD	HS75438DTR	HS75438DTT	HWXX36338TR	HWXX38338SS1V
HWXX75436TR	HWXX75436XVTR	HWXX75436XVTT	HWXX75438TR	HWXX75438TT
TSDP34138	TSDP34156	TSDP34338	TSDP34356	TSOP31130
TSOP31133	TSOP31136	TSOP31138	TSOP31140	TSOP31156
TSOP31230	TSOP31230GL1	TSOP31233	TSOP31236	TSOP31236SB1
TSOP31238	TSOP31238SE1	TSOP31238SS1BS12	TSOP31238UU1	TSOP31240
TSOP31256	TSOP31330	TSOP31333	TSOP31336	TSOP31338
TSOP31340	TSOP31356	TSOP31430	TSOP31436	TSOP31438
TSOP31438SB1	TSOP31456	TSOP31530	TSOP31533	TSOP31536
TSOP31538	TSOP31540	TSOP31556	TSOP32130	TSOP32133
TSOP32136	TSOP32138	TSOP32140	TSOP32156	TSOP32230
TSOP32230SS1N	TSOP32230SS1NBS12	TSOP32233	TSOP32236	TSOP32238
TSOP32238CZ1	TSOP32238SJ1	TSOP32238SS1BK	TSOP32238SS1N	TSOP32240
TSOP32256	TSOP32333	TSOP32333YA1	TSOP32336	TSOP32336DE1
TSOP32336SS1F	TSOP32336YA1	TSOP32336YA1F	TSOP32338	TSOP32338SS1V
TSOP32340	TSOP32356	TSOP32433	TSOP32433YA1	TSOP32436
TSOP32438	TSOP32438V1	TSOP32438RF1	TSOP32438S1F	TSOP32438SS1V
TSOP32438YA1	TSOP32440	TSOP32456	TSOP32530	TSOP32533
TSOP32536	TSOP32538	TSOP32538DL1	TSOP32538LL1	TSOP32540
TSOP32556	TSOP33136	TSOP33138	TSOP33140	TSOP33156
TSOP33230	TSOP33233	TSOP33236	TSOP33238	TSOP33238DF1P
TSOP33240	TSOP33256	TSOP33330	TSOP33333	TSOP33336
TSOP33336P16FTR	TSOP33338	TSOP33338P16TR	TSOP33340	TSOP33356
TSOP33433	TSOP33436	TSOP33438	TSOP33440	TSOP33456
TSOP33536	TSOP33538	TSOP34130	TSOP34133	TSOP34136
TSOP34138	TSOP34138SB1	TSOP34140	TSOP34156	TSOP34333
TSOP34336	TSOP34336JK1FA	TSOP34336SB1	TSOP34336SS1F	TSOP34336V11F
TSOP34338	TSOP34338JK1F	TSOP34338JK1FA	TSOP34338S1F	TSOP34338SS1F
TSOP34338SS1FA	TSOP34338SS1VF	TSOP34338V11F	TSOP34338VM1	TSOP34340
TSOP34356	TSOP34356SS1F	TSOP34433	TSOP34436	TSOP34436SS1A
TSOP34436SS1F	TSOP34436ST1	TSOP34438	TSOP34438SB1	TSOP34438SJ1
TSOP34438SS1F	TSOP34438SS1FBS12Z	TSOP34438SS1V	TSOP34438ST1	TSOP34438YA1
TSOP34440	TSOP34440QJ1	TSOP34456	TSOP34456SS1A	TSOP34530
TSOP34533	TSOP34536	TSOP34536TE1F	TSOP34538	TSOP34540
TSOP34556	TSOP34830	TSOP34833	TSOP34836	TSOP34836LL1
TSOP34838	TSOP34838CZ1	TSOP34838QJ1	TSOP34838SB1	TSOP34838SS1BS12Z
TSOP34838SS1N	TSOP34838YA1	TSOP34840	TSOP34840SB1	TSOP34843
TSOP34856	TSOP36130TR	TSOP36130TT	TSOP36133TR	TSOP36133TT
TSOP36136TR	TSOP36136TT	TSOP36138NTR	TSOP36138TR	TSOP36138TT
TSOP36140TR	TSOP36140TT	TSOP36156TR	TSOP36156TT	TSOP36230TR
TSOP36230TT	TSOP36233TR	TSOP36233TT	TSOP36236TR	TSOP36236TT
TSOP36238TR	TSOP36238TT	TSOP36240TR	TSOP36240TT	TSOP36256TR
TSOP36256TT	TSOP36330TR	TSOP36333TR	TSOP36333TT	TSOP36336TR
TSOP36336TT	TSOP36338TR	TSOP36338TT	TSOP36340TR	TSOP36340TT
TSOP36356FTR	TSOP36356TR	TSOP36356TT	TSOP36430TR	TSOP36430TT
TSOP36433TR	TSOP36433TT	TSOP36436TR	TSOP36436TT	TSOP36438FTR
TSOP36438FTT	TSOP36438TR	TSOP36438TT	TSOP36438VTT	TSOP36440TR
TSOP36440TT	TSOP36456FTR	TSOP36456NTR	TSOP36456TR	TSOP36456TT
TSOP36530TR	TSOP36530TT	TSOP36533TR	TSOP36533TT	TSOP36536TR
TSOP36536TT	TSOP36538TR	TSOP36538TT	TSOP36540TR	TSOP36540TT
TSOP36556TR	TSOP36556TT	TSOP37236TT1	TSOP37238TT1	TSOP37256TT1
TSOP37333TT1	TSOP37336TT1	TSOP37338ETT1	TSOP37338TT1	TSOP37356ETT1
TSOP37356TT1	TSOP37436ETT1	TSOP37436TT1	TSOP37438ETT1	TSOP37438TT1
TSOP37456TT1	TSOP37536TT1	TSOP37538TT1	TSOP37556TT1	TSOP38130
TSOP38133	TSOP38136	TSOP38138	TSOP38138DH1	TSOP38140



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TSOP38156	TSOP38230	TSOP38233	TSOP38236	TSOP38238
TSOP38238SB1	TSOP38238SS1V	TSOP38238ST1	TSOP38240	TSOP38240SS1S
TSOP38240ST1S	TSOP38256	TSOP38336	TSOP38338	TSOP38338SS1V
TSOP38340	TSOP38356	TSOP38356CC1	TSOP38356PC1	TSOP38430
TSOP38433	TSOP38436	TSOP38436DJ1	TSOP38436SS1BS21	TSOP38438
TSOP38438CB1	TSOP38438CZ1	TSOP38438DH1	TSOP38438SJ1	TSOP38440
TSOP38456	TSOP38530	TSOP38533	TSOP38536	TSOP38538
TSOP38538CZ1	TSOP38538SS1BS12Z	TSOP38540	TSOP38540SB1	TSOP38540ST1
TSOP38556	TSOP39230	TSOP39230TR1	TSOP39233	TSOP39233TR1
TSOP39236	TSOP39236TR1	TSOP39238	TSOP39238TR1	TSOP39240
TSOP39240TR1	TSOP39256	TSOP39256TR1	TSOP39330	TSOP39330TR1
TSOP39333	TSOP39333TR1	TSOP39336	TSOP39336TR1	TSOP39338
TSOP39338TR1	TSOP39340	TSOP39340TR1	TSOP39356	TSOP39356TR1
TSOP39430	TSOP39430TR1	TSOP39433	TSOP39433TR1	TSOP39436
TSOP39436TR1	TSOP39438	TSOP39438TR1	TSOP39440	TSOP39440TR1
TSOP39456	TSOP39456TR1	TSOP39530	TSOP39530TR1	TSOP39533
TSOP39533TR1	TSOP39536	TSOP39536TR1	TSOP39538	TSOP39538TR1
TSOP39540	TSOP39540TR1	TSOP39556	TSOP39556TR1	TSOP75230TR
TSOP75230TT	TSOP75230WTR	TSOP75230WTT	TSOP75233TR	TSOP75233TT
TSOP75233WTR	TSOP75233WTT	TSOP75236TR	TSOP75236TT	TSOP75236WTR
TSOP75236WTT	TSOP75238TR	TSOP75238TT	TSOP75238WTR	TSOP75238WTT
TSOP75240TR	TSOP75240TT	TSOP75240WTR	TSOP75240WTT	TSOP75256TR
TSOP75256TT	TSOP75256WTR	TSOP75256WTT	TSOP75330TR	TSOP75330TT
TSOP75330WTR	TSOP75330WTT	TSOP75333TR	TSOP75333WTR	TSOP75333WTT
TSOP75336TR	TSOP75336TT	TSOP75336WTR	TSOP75336WTT	TSOP75338FTR
TSOP75338TR	TSOP75338TT	TSOP75338WRFTT	TSOP75338WTR	TSOP75338WTT
TSOP75340TR	TSOP75340TT	TSOP75340WTR	TSOP75340WTT	TSOP75356TR
TSOP75356TT	TSOP75356WTR	TSOP75356WTT	TSOP75430TR	TSOP75430WTR
TSOP75430WTT	TSOP75433WTR	TSOP75433WTT	TSOP75436TR	TSOP75436TT
TSOP75436WTR	TSOP75436WTT	TSOP75438FTR	TSOP75438TR	TSOP75438TT
TSOP75438WTR	TSOP75438WTT	TSOP75440TR	TSOP75440TT	TSOP75440WTR
TSOP75440WTT	TSOP75456TR	TSOP75456TT	TSOP75456WTR	TSOP75456WTT
TSOP75530TR	TSOP75530TT	TSOP75530WTR	TSOP75530WTT	TSOP75533TR
TSOP75533TT	TSOP75533WTR	TSOP75533WTT	TSOP75536TR	TSOP75536TT
TSOP75536WTR	TSOP75536WTT	TSOP75538FTR	TSOP75538TR	TSOP75538TT
TSOP75538WTR	TSOP75538WTT	TSOP75540TR	TSOP75540TT	TSOP75540WTR
TSOP75540WTT	TSOP75556TR	TSOP75556TT	TSOP75556WTR	TSOP75556WTT
TSOP75S40FWTR	TSOP75S40TR			



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Introduction of new in-house IC for Aether products

Vishay Opto has published PCN OPT-1308-2024, announcing the introduction of a new in-house designed IC for existing Aether product series. This IC uses the latest chip technology of the world's 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 has similar electrical and optical characteristics.

The Cyllene 2 IC provides an improved sensitivity in dark ambient, a wider supply voltage range (2.0-5.5V vs. 2.5-5.5V) and a better robustness against supply voltage ripple (PSRR) and Wi-Fi interference.

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 Aether 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: Eleven years after market introduction, the Aether IC has reached the end of its product lifetime. To assure a long-term product availability and to meet latest technical requirements, 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 will be available on our website 7th February 2024.

Q: Is it required to test the product in customers application?

A: Yes. Samples can be ordered by contacting me or our Business Marketing colleagues mentioned below.

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