



Product Change Notification



Product Group: Opto Modules & Visibles 21-JAN-2020 / PCN OMV-1106-2020 Rev. 0

TITLE: Materials Changes for IR Receivers

DESCRIPTION OF CHANGE: The epoxy material will be changed for Mold, Minimold, Panhead, and Heimdall packages. The epoxy of F- and N- products (xxxxF; xxxxN) and products carrying the latest IC generation (Cyllene and Mnome) remains unchanged. A second source photodiode will be introduced for all Mold, Minimold, Panhead, Heimdall, Minicast, and TVCast packages. Products that use a customized photodiode (Mold TSSP4xxxXB) will not have a second source photodiode supplier.

Please note:

It is not possible to specifically order production quantities of parts (after the start shipment date) with either the former or the new photodiode, as both photodiodes will flow into production according to availability.

CLASSIFICATION OF CHANGE: Bill of Material (Major)

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

EXPECTED INFLUENCE ON QUALITY RELIABILITY / PERFORMANCE: These materials changes do not impact our datasheets and it is not expected that any difference in Performance or any influence on quality will be observed. Nevertheless, we recommended to order samples to test the parts in your application.

PRODUCT CATEGORY: IR Receivers

PART NUMBERS / SERIES / FAMILIES AFFECTED:

IR-Receiver: Mold, Minimold, Panhead, Heimdall, Minicast, and TVCast packages (see detailed part number list).

VISHAY BRAND(s): VISHAY SEMICONDUCTORS

TIME SCHEDULE: **Annotations about time schedule:**

Start Shipment Date: 08-MAY-2020

SAMPLES AVAILABLE BEGINNING: 26-JAN-2020

We need samples for evaluation: Yes No

If Yes return this form to contact information below.

PRODUCT IDENTIFICATION: via datecode

QUALIFICATION DATA: Q-report available in ww5.

This PCN is considered approved, without further notification, unless we receive specific customer concerns before: 15-MAR-2020 or as specified by contract.

ISSUED BY:

PM: Rainer Hauschildt, Product Marketing IR Receiver

Phone: +49 7131 7498 - 605

Email: rainer.hauschildt@vishay.com

For further information, please contact your regional Vishay office.

CONTACT INFORMATION:

VISHAY Intertechnology Asia Pte. Ltd.
Business Marketing Asia/Japan
 25 Tampines Street 92
 Keppel Building # 02-00
 Singapore 528877
 Phone: +65 6780 7879
 Fax: +65 6780 7897

VISHAY Intertechnologies, Inc.
Business Marketing The Americas - Opto
 2582 Junction Avenue
 San Jose, California 95134-1923
 United States of America
 Phone: +1-408-567-8358
 Fax: +1 408-240-5687

VISHAY Semiconductor GmbH
Business Marketing Europe Opto
 Theresienstr. 2
 D-74025 Heilbronn
 Germany
 Phone: +49-7131-67-2113
 Fax: +49-7131-67-3144



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Attached Part Number List:

Material	ChangeofMoldCompound	2ndSourcephotodiode
HS0013438	No	Yes
HS0013438P16TR	No	Yes
HS0013638	No	Yes
HS0014438	No	Yes
HS0014638	No	Yes
HS0015438TR	No	Yes
HS0015438TT	No	Yes
HS0015438XVTR	No	Yes
HS0033438	No	Yes
HS0038B	Yes	Yes
HS0038BD	Yes	Yes
HS0038C4TR	No	Yes
HS0038C4TT	No	Yes
HS0038C6TR	No	Yes
HS0038C6TT	No	Yes
HS0038HC4XVTR	No	Yes
HS0038HC4XVTT	No	Yes
HS0038HC6XVTR	No	Yes
HS0038HC6XVTT	No	Yes
HS0038HM4TR	No	Yes
HS0038HM4TT	No	Yes
HS0038HM4XVTR	No	Yes
HS0038HM6TT	No	Yes
HS0038M4	No	Yes
HS0038M4DA1	No	Yes
HS0053438	Yes	Yes
HS0093638	No	Yes
HS75438DTR	Yes	Yes
HS75438DTT	Yes	Yes
HS75A38TT	Yes	Yes
HS77438TR	Yes	Yes
HS77438TT	Yes	Yes
HWXX34838DF1	Yes	Yes
HWXX36338TR	Yes	Yes
HWXX36338TT	Yes	Yes
HWXX4038	Yes	Yes
HWXX6438TR	Yes	Yes

HWXX6438TT	Yes	Yes
HWXX75436TR	Yes	Yes
HWXX75436XVTR	Yes	Yes
HWXX75436XVTT	Yes	Yes
HWXX75438TR	Yes	Yes
HWXX75438TT	Yes	Yes
HWXX77038TR	Yes	Yes
HWXX77038TT	Yes	Yes
HWXX77438TR	Yes	Yes
HWXX77438TT	Yes	Yes
HWXX95436XVTR	No	Yes
HWXX95436XVTT	No	Yes
HWXX95438TT	No	Yes
HWXX95438XVTT	No	Yes
TSDP34138	Yes	Yes
TSDP34156	Yes	Yes
TSDP34156LL1	Yes	Yes
TSDP34338	Yes	Yes
TSDP34356	Yes	Yes
TSMP4138	Yes	Yes
TSMP4138SB1	Yes	Yes
TSMP6000TR	Yes	Yes
TSMP6000TT	Yes	Yes
TSMP77000TR	Yes	Yes
TSMP77000TT	Yes	Yes
TSMP77138TR	Yes	Yes
TSMP77138TT	Yes	Yes
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TSOP12340	No	Yes
TSOP13136	No	Yes
TSOP13138	No	Yes
TSOP13140	No	Yes
TSOP13156	No	Yes
TSOP13236	No	Yes
TSOP13238	No	Yes
TSOP13240	No	Yes
TSOP13256	No	Yes
TSOP13336	No	Yes
TSOP13336CA1F	No	Yes
TSOP13336DS1F	No	Yes
TSOP13336P16FTR	No	Yes
TSOP13336SS1F	No	Yes
TSOP13338	No	Yes
TSOP13338DF1P	No	Yes
TSOP13338DF1PF	No	Yes
TSOP13338DP1F	No	Yes
TSOP13338P16FTR	No	Yes
TSOP13338SS1F	No	Yes

TSOP13340	No	Yes
TSOP13356	No	Yes
TSOP13356P10TR	No	Yes
TSOP13436	No	Yes
TSOP13436DF1P	No	Yes
TSOP13436SS1F	No	Yes
TSOP13438	No	Yes
TSOP13438ST1F	No	Yes
TSOP13440	No	Yes
TSOP13456	No	Yes
TSOP13456SS1F	No	Yes
TSOP13456ST1F	No	Yes
TSOP13536	No	Yes
TSOP13538	No	Yes
TSOP13540	No	Yes
TSOP13556	No	Yes
TSOP13636	No	Yes
TSOP13638	No	Yes
TSOP13638CA1F	No	Yes
TSOP13640	No	Yes
TSOP13656	No	Yes
TSOP14130	No	Yes
TSOP14133	No	Yes
TSOP14136	No	Yes
TSOP14138	No	Yes
TSOP14140	No	Yes
TSOP14156	No	Yes
TSOP14230	No	Yes
TSOP14233	No	Yes
TSOP14236	No	Yes
TSOP14236SO1F	No	Yes
TSOP14236SS1F	No	Yes
TSOP14238	No	Yes
TSOP14238LL1	No	Yes
TSOP14238RF1	No	Yes
TSOP14238SB1	No	Yes
TSOP14238SO1	No	Yes
TSOP14238SP1	No	Yes
TSOP14238SS1F	No	Yes
TSOP14238ST1	No	Yes
TSOP14238ZC1	No	Yes
TSOP14240	No	Yes
TSOP14240SJ1	No	Yes
TSOP14256	No	Yes
TSOP14330	No	Yes
TSOP14330SS1BS12	No	Yes
TSOP14333	No	Yes
TSOP14336	No	Yes

TSOP14336JK1F	No	Yes
TSOP14336SI1F	No	Yes
TSOP14338	No	Yes
TSOP14338DF1F	No	Yes
TSOP14338DK1F	No	Yes
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TSOP14338VI1F	No	Yes
TSOP14338VM1	No	Yes
TSOP14340	No	Yes
TSOP14356	No	Yes
TSOP14430	No	Yes
TSOP14433	No	Yes
TSOP14436	No	Yes
TSOP14438	No	Yes
TSOP14438RF1	No	Yes
TSOP14438SJ1	No	Yes
TSOP14438SS1F	No	Yes
TSOP14438ST1	No	Yes
TSOP14438VI1F	No	Yes
TSOP14438YA1	No	Yes
TSOP14440	No	Yes
TSOP14456	No	Yes
TSOP14530	No	Yes
TSOP14533	No	Yes
TSOP14536	No	Yes
TSOP14536TE1F	No	Yes
TSOP14538	No	Yes
TSOP14540	No	Yes
TSOP14556	No	Yes
TSOP14630	No	Yes
TSOP14633	No	Yes
TSOP14636	No	Yes
TSOP14638	No	Yes
TSOP14638QJ1	No	Yes
TSOP14640	No	Yes
TSOP14656	No	Yes
TSOP2130	Yes	Yes
TSOP2133	Yes	Yes
TSOP2136	Yes	Yes
TSOP2136LL1	Yes	Yes
TSOP2136SA1	Yes	Yes
TSOP2136VI1	Yes	Yes
TSOP2138	Yes	Yes
TSOP2138LL1	Yes	Yes

TSOP2138LL1F	No	Yes
TSOP2140	Yes	Yes
TSOP2156	Yes	Yes
TSOP2156SA1	Yes	Yes
TSOP2156SB1	Yes	Yes
TSOP2156YA1	Yes	Yes
TSOP2230	Yes	Yes
TSOP2233	Yes	Yes
TSOP2233UH1	Yes	Yes
TSOP2233VI1	Yes	Yes
TSOP2236	Yes	Yes
TSOP2236AY1	Yes	Yes
TSOP2236LL1	Yes	Yes
TSOP2236QJ1	Yes	Yes
TSOP2236SJ1	Yes	Yes
TSOP2236SP1	Yes	Yes
TSOP2236UH1	Yes	Yes
TSOP2236VI1	Yes	Yes
TSOP2236YA1	Yes	Yes
TSOP2238	Yes	Yes
TSOP2238AY1	Yes	Yes
TSOP2238CZ1	Yes	Yes
TSOP2238PM1	Yes	Yes
TSOP2238QJ1	Yes	Yes
TSOP2238SB1	Yes	Yes
TSOP2238SS1BS12Z	Yes	Yes
TSOP2238VI1	Yes	Yes
TSOP2238WE1	Yes	Yes
TSOP2238YA1	Yes	Yes
TSOP2240	Yes	Yes
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TSOP2256	Yes	Yes
TSOP2256IV1	Yes	Yes
TSOP2256SB1	Yes	Yes
TSOP2330	Yes	Yes
TSOP2333	Yes	Yes
TSOP2336	Yes	Yes
TSOP2336IV1	Yes	Yes
TSOP2336YA1F	No	Yes
TSOP2338	Yes	Yes
TSOP2338LL1F	No	Yes
TSOP2338RF1	Yes	Yes
TSOP2338SS1OS12	Yes	Yes
TSOP2338YA1	Yes	Yes
TSOP2340	Yes	Yes
TSOP2356	Yes	Yes
TSOP2430	Yes	Yes
TSOP2433	Yes	Yes

TSOP2436	Yes	Yes
TSOP2438	Yes	Yes
TSOP2438SA1F	No	Yes
TSOP2440	Yes	Yes
TSOP2456	Yes	Yes
TSOP2456DE1	Yes	Yes
TSOP2536	Yes	Yes
TSOP2538	Yes	Yes
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TSOP32130	Yes	Yes
TSOP32133	Yes	Yes
TSOP32136	Yes	Yes
TSOP32136LL1	Yes	Yes
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TSOP32136YA1F	No	Yes
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TSOP32138	Yes	Yes
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TSOP32138SB1	Yes	Yes
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TSOP32230	Yes	Yes
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TSOP32233	Yes	Yes
TSOP32236	Yes	Yes
TSOP32236UH1	Yes	Yes
TSOP32238	Yes	Yes
TSOP32238AY1	Yes	Yes
TSOP32238CZ1	Yes	Yes
TSOP32238IV1F	No	Yes
TSOP32238QJ1	Yes	Yes
TSOP32238RF1	Yes	Yes
TSOP32238SI1	Yes	Yes
TSOP32238SJ1	Yes	Yes
TSOP32238SJ1F	No	Yes
TSOP32238SO1	Yes	Yes
TSOP32238SS1N	No	Yes
TSOP32238VI1	Yes	Yes
TSOP32238VM1	Yes	Yes
TSOP32238VM1F	No	Yes
TSOP32238WE1	Yes	Yes

TSOP32238YA1	Yes	Yes
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TSOP32240	Yes	Yes
TSOP32256	Yes	Yes
TSOP32256CD1F	No	Yes
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TSOP32336IV1	Yes	Yes
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TSOP32338QJ1	Yes	Yes
TSOP32338SA1	Yes	Yes
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TSOP32338SI1F	No	Yes
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TSOP32338SS1V	Yes	Yes
TSOP32338SS1VF	No	Yes
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TSOP32356	Yes	Yes
TSOP32356CD1F	No	Yes
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TSOP32438	Yes	Yes
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TSOP32438LL1	Yes	Yes
TSOP32438QJ1	Yes	Yes
TSOP32438SA1F	No	Yes
TSOP32438SI1F	No	Yes
TSOP32438SS1F	No	Yes
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TSOP32438SS1V	Yes	Yes
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TSOP32438WE1	Yes	Yes
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TSOP32438YA1	Yes	Yes
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TSOP32536	Yes	Yes
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TSOP32538	Yes	Yes
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TSOP32538IV1	Yes	Yes
TSOP32538LL1	Yes	Yes
TSOP32540	Yes	Yes
TSOP32556	Yes	Yes
TSOP32C56CD1F	No	Yes
TSOP33136	Yes	Yes
TSOP33138	Yes	Yes
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TSOP33233	Yes	Yes
TSOP33236	Yes	Yes
TSOP33238	Yes	Yes
TSOP33240	Yes	Yes
TSOP33256	Yes	Yes
TSOP33330	Yes	Yes
TSOP33333	Yes	Yes
TSOP33336	Yes	Yes
TSOP33336CA1F	No	Yes
TSOP33336P16FTR	No	Yes

TSOP33336SS1F	No	Yes
TSOP33338	Yes	Yes
TSOP33338SS1F	No	Yes
TSOP33340	Yes	Yes
TSOP33356	Yes	Yes
TSOP33433	Yes	Yes
TSOP33436	Yes	Yes
TSOP33438	Yes	Yes
TSOP33438SS1F	No	Yes
TSOP33438ST1F	No	Yes
TSOP33440	Yes	Yes
TSOP33456	Yes	Yes
TSOP33536	Yes	Yes
TSOP33538	Yes	Yes
TSOP34130	Yes	Yes
TSOP34133	Yes	Yes
TSOP34136	Yes	Yes
TSOP34136LL1	Yes	Yes
TSOP34136SB1	Yes	Yes
TSOP34136SI1	Yes	Yes
TSOP34136SS1OS21	Yes	Yes
TSOP34136ST1F	No	Yes
TSOP34136YA1	Yes	Yes
TSOP34138	Yes	Yes
TSOP34138DA1	Yes	Yes
TSOP34138JH1	Yes	Yes
TSOP34138LL1	Yes	Yes
TSOP34138SB1	Yes	Yes
TSOP34138SI1	Yes	Yes
TSOP34138SP1	Yes	Yes
TSOP34138SS1BS12	Yes	Yes
TSOP34138ST1F	No	Yes
TSOP34138YA1F	No	Yes
TSOP34138ZC1	Yes	Yes
TSOP34140	Yes	Yes
TSOP34156	Yes	Yes
TSOP34156DA1	Yes	Yes
TSOP34156SS1F	No	Yes
TSOP34333	Yes	Yes
TSOP34336	Yes	Yes
TSOP34336AY1	Yes	Yes
TSOP34336CZ1	Yes	Yes
TSOP34336DH1	Yes	Yes
TSOP34336JK1	Yes	Yes
TSOP34336JK1F	No	Yes
TSOP34336JK1FA	No	Yes
TSOP34336PM1	Yes	Yes
TSOP34336PM1F	No	Yes

TSOP34336QJ1	Yes	Yes
TSOP34336SB1	Yes	Yes
TSOP34336SB1F	No	Yes
TSOP34336SI1	Yes	Yes
TSOP34336SI1F	No	Yes
TSOP34336SO1F	No	Yes
TSOP34336SS1F	No	Yes
TSOP34336SS1FA	No	Yes
TSOP34336ST1	Yes	Yes
TSOP34336ST1F	No	Yes
TSOP34336VI1F	No	Yes
TSOP34336YA1	Yes	Yes
TSOP34336YA1F	No	Yes
TSOP34338	Yes	Yes
TSOP34338DF1F	No	Yes
TSOP34338IV1	Yes	Yes
TSOP34338JH1	Yes	Yes
TSOP34338JK1	Yes	Yes
TSOP34338JK1F	No	Yes
TSOP34338JK1FA	No	Yes
TSOP34338LL1	Yes	Yes
TSOP34338NN1F	No	Yes
TSOP34338RF1	Yes	Yes
TSOP34338RF1F	No	Yes
TSOP34338SB1	Yes	Yes
TSOP34338SB1F	No	Yes
TSOP34338SI1F	No	Yes
TSOP34338SO1F	No	Yes
TSOP34338SP1F	No	Yes
TSOP34338SS1BS12	Yes	Yes
TSOP34338SS1BS12Z	Yes	Yes
TSOP34338SS1F	No	Yes
TSOP34338SS1FA	No	Yes
TSOP34338SS1FBS21	No	Yes
TSOP34338SS1VF	No	Yes
TSOP34338ST1F	No	Yes
TSOP34338SW1F	No	Yes
TSOP34338UH1	Yes	Yes
TSOP34338VI1F	No	Yes
TSOP34338VM1	Yes	Yes
TSOP34338YA1	Yes	Yes
TSOP34340	Yes	Yes
TSOP34356	Yes	Yes
TSOP34356JK1F	No	Yes
TSOP34356JK1FABL	No	Yes
TSOP34356JK1FBL	No	Yes
TSOP34356SB1	Yes	Yes
TSOP34356SI1	Yes	Yes

TSOP34356SI1F	No	Yes
TSOP34356SS1BS12Z	Yes	Yes
TSOP34356SS1F	No	Yes
TSOP34356YA1	Yes	Yes
TSOP34433	Yes	Yes
TSOP34436	Yes	Yes
TSOP34436QJ1F	No	Yes
TSOP34436SB1	Yes	Yes
TSOP34436SS1A	Yes	Yes
TSOP34436SS1F	No	Yes
TSOP34436ST1	Yes	Yes
TSOP34436ST1F	No	Yes
TSOP34436TE1F	No	Yes
TSOP34438	Yes	Yes
TSOP34438CZ1F	No	Yes
TSOP34438DK1F	No	Yes
TSOP34438RF1	Yes	Yes
TSOP34438SB1	Yes	Yes
TSOP34438SB1F	No	Yes
TSOP34438SI1	Yes	Yes
TSOP34438SI1F	No	Yes
TSOP34438SJ1	Yes	Yes
TSOP34438SK1	Yes	Yes
TSOP34438SO1	Yes	Yes
TSOP34438SS1BS12Z	Yes	Yes
TSOP34438SS1F	No	Yes
TSOP34438SS1FBS12Z	No	Yes
TSOP34438SS1V	Yes	Yes
TSOP34438ST1	Yes	Yes
TSOP34438UH1	Yes	Yes
TSOP34438VI1	Yes	Yes
TSOP34438YA1	Yes	Yes
TSOP34440	Yes	Yes
TSOP34440QJ1	Yes	Yes
TSOP34440SB1	Yes	Yes
TSOP34456	Yes	Yes
TSOP34456DB1	Yes	Yes
TSOP34456SB1	Yes	Yes
TSOP34456SI1	Yes	Yes
TSOP34456SS1A	Yes	Yes
TSOP34456SS1BS12Z	Yes	Yes
TSOP34456SS1F	No	Yes
TSOP34456YA1	Yes	Yes
TSOP34530	Yes	Yes
TSOP34533	Yes	Yes
TSOP34536	Yes	Yes
TSOP34536SS1FA	No	Yes
TSOP34536TE1F	No	Yes

TSOP34536YA1	Yes	Yes
TSOP34538	Yes	Yes
TSOP34538JK1FA	No	Yes
TSOP34538SS1F	No	Yes
TSOP34538SS1FA	No	Yes
TSOP34540	Yes	Yes
TSOP34556	Yes	Yes
TSOP34830	Yes	Yes
TSOP34830SB1	Yes	Yes
TSOP34830SS1BS12	Yes	Yes
TSOP34833	Yes	Yes
TSOP34833YA1	Yes	Yes
TSOP34836	Yes	Yes
TSOP34836LL1	Yes	Yes
TSOP34836SB1	Yes	Yes
TSOP34836SB1A	Yes	Yes
TSOP34836SB1F	No	Yes
TSOP34836SI1	Yes	Yes
TSOP34836SS1BS12	Yes	Yes
TSOP34836SS1BS12Z	Yes	Yes
TSOP34836SS1BS21	Yes	Yes
TSOP34836SS1F	No	Yes
TSOP34836ST1	Yes	Yes
TSOP34836UH1	Yes	Yes
TSOP34836VI1	Yes	Yes
TSOP34836YA1	Yes	Yes
TSOP34836ZC1	Yes	Yes
TSOP34838	Yes	Yes
TSOP34838CZ1	Yes	Yes
TSOP34838DA1	Yes	Yes
TSOP34838DB1	Yes	Yes
TSOP34838LL1	Yes	Yes
TSOP34838QJ1	Yes	Yes
TSOP34838RF1	Yes	Yes
TSOP34838SB1	Yes	Yes
TSOP34838SB1F	No	Yes
TSOP34838SI1	Yes	Yes
TSOP34838SJ1	Yes	Yes
TSOP34838SK1	Yes	Yes
TSOP34838SO1	Yes	Yes
TSOP34838SP1	Yes	Yes
TSOP34838SS1BS12Z	Yes	Yes
TSOP34838SS1F	No	Yes
TSOP34838SS1N	No	Yes
TSOP34838UH1	Yes	Yes
TSOP34838WE1	Yes	Yes
TSOP34838YA1	Yes	Yes
TSOP34838YA1F	No	Yes

TSOP34838ZC1	Yes	Yes
TSOP34840	Yes	Yes
TSOP34840DG1	Yes	Yes
TSOP34840DG1BS12	Yes	Yes
TSOP34840SB1	Yes	Yes
TSOP34840SS1PS21	Yes	Yes
TSOP34840SS1S	Yes	Yes
TSOP34840ST1F	No	Yes
TSOP34840ST1S	Yes	Yes
TSOP34843	Yes	Yes
TSOP34856	Yes	Yes
TSOP34856DB1	Yes	Yes
TSOP34856SB1	Yes	Yes
TSOP34856SB1F	No	Yes
TSOP34856SI1	Yes	Yes
TSOP34856SI1F	No	Yes
TSOP34856SS1F	No	Yes
TSOP34856YA1	Yes	Yes
TSOP34C56SI1F	No	Yes
TSOP34C56SS1F	No	Yes
TSOP34G36SS1F	No	Yes
TSOP34G36ST1F	No	Yes
TSOP34G36VI1F	No	Yes
TSOP36130TR	Yes	Yes
TSOP36130TT	Yes	Yes
TSOP36133TR	Yes	Yes
TSOP36133TT	Yes	Yes
TSOP36136TR	Yes	Yes
TSOP36136TT	Yes	Yes
TSOP36138NTR	No	Yes
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TSOP36138TT	Yes	Yes
TSOP36140TR	Yes	Yes
TSOP36140TT	Yes	Yes
TSOP36156TR	Yes	Yes
TSOP36156TT	Yes	Yes
TSOP36230TR	Yes	Yes
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TSOP58356	No	Yes
TSOP58438CZ1	No	Yes

TSOP58438PC1	No	Yes
TSOP38433	No	Yes
TSOP18338	No	Yes
TSOP58436CA1Y	No	Yes
TSOP58438CE1Y	No	Yes
TSOP38336ES1	No	Yes
TSOP18338PC1	No	Yes
HWXX58338	No	Yes
TSOP38530	No	Yes
TSMP58000	No	Yes
TSOP58340	No	Yes
TSOP98336	No	Yes
HS0018438	No	Yes
TSSP98038	No	Yes
HWXX58438ST1R	No	Yes
HWXX58438	No	Yes
TSMP58000SS1BS12Z	No	Yes
TSOP38236PA1	No	Yes
TSOP98636	No	Yes
TSOP58236	No	Yes
TSOP58256	No	Yes
TSOP58233	No	Yes
HS0018638	No	Yes
TSOP58536	No	Yes
TSOP58438DB1	No	Yes
TSOP58338PC1	No	Yes
TSOP38138DH1	No	Yes
TSOP58338	No	Yes
TSOP58440	No	Yes
HS0038B3D	No	Yes
TSOP58236SB1	No	Yes
TSOP58333	No	Yes
TSSP58038SS1XB	No	No
TSOP38336PC1	No	Yes
TSOP18238SB1	No	Yes
TSOP98238	No	Yes
TSOP58356PC1	No	Yes
TSOP18156	No	Yes
TSOP18356CC1	No	Yes
TSOP18238	No	Yes
TSOP58438SB1	No	Yes
TSOP58336PC1A	No	Yes
TSOP58156	No	Yes
TSOP58238SS1BS12	No	Yes
TSOP58330	No	Yes
TSOP58338CA1	No	Yes
TSOP38240	No	Yes
TSOP38336	No	Yes

TSOP38356CC1	No	Yes
TSOP38238	No	Yes
TSOP38436PA1	No	Yes
TSOP38240SB1	No	Yes
HWXX58438SS1R	No	Yes
HS0038C4	No	Yes
TSOP38438	No	Yes
HS0038B4D	No	Yes
TSOP38133	No	Yes
HWXX38238SB1	No	Yes
TSOP38436SS1BS21	No	Yes
TSOP38156SS1PS21	No	Yes
TSOP98256	No	Yes
TSOP58136	No	Yes
TSOP58436CA1	No	Yes
TSOP58540	No	Yes
HSMP58000	No	Yes
HWXX58138	No	Yes
HWXX38438	No	Yes
TSOP38236SS1BS12	No	Yes
HS0038B4DSB1	No	Yes
TSOP98538SU1	No	Yes
TSMP58138	No	Yes
HWXX58436	No	Yes
HWXX58136	No	Yes
TSOP98440	No	Yes
TSOP98456	No	Yes
TSOP98536	No	Yes
TSOP38338SS1V	No	Yes
TSOP38436CZ1	No	Yes
TSOP38438DH1	No	Yes
TSOP38533	No	Yes
TSOP58438ES1	No	Yes
HS0018338	No	Yes
TSOP38138	No	Yes
TSOP18438DH1	No	Yes
TSOP38336ST1	No	Yes
TSOP38236	No	Yes
TSOP38238SU1	No	Yes
TSOP38538CZ1	No	Yes
TSSP98056	No	Yes
HWXX38238ST1	No	Yes
TSOP18338CE1	No	Yes
TSOP18438DB1	No	Yes
TSOP18456CA1	No	Yes
TSOP18440SJ1	No	Yes
TSOP18638	No	Yes
TSOP18436DJ1	No	Yes

TSOP18438SB1	No	Yes
TSOP18456	No	Yes
TSOP18438SJ1	No	Yes
TSOP38436CZ1Y	No	Yes
TSOP38538SS1BS12	No	Yes
TSOP38236SS1BS12Z	No	Yes
TSOP38230	No	Yes
TSOP18436CB1	No	Yes
TSOP18438CE1	No	Yes
TSOP98640	No	Yes
HWXX38238SS1R	No	Yes
TSOP98236	No	Yes
TSOP38436CC1Y	No	Yes
HWXX38238ST1R	No	Yes
TSOP98438CZ1	No	Yes
TSOP38236SS1PS12Z	No	Yes
TSOP98438SB1	No	Yes
TSOP39436	No	Yes
TSOP59556	No	Yes
TSOP39533TR1	No	Yes
TSOP59340TR1	No	Yes
TSOP59230TR1	No	Yes
TSOP59530	No	Yes
TSOP39238	No	Yes
TSOP59240	No	Yes
TSOP59340	No	Yes
TSOP39336	No	Yes
TSOP39240TR1	No	Yes
TSOP39330	No	Yes
TSOP59333	No	Yes
TSOP39238TR1	No	Yes
TSOP59338TR1	No	Yes
TSOP59336	No	Yes
TSOP59440TR1	No	Yes
TSOP59356TR1	No	Yes
TSOP39338TR1	No	Yes
TSOP39336TR1	No	Yes
TSOP39433	No	Yes
TSOP59233	No	Yes
TSOP59540TR1	No	Yes
TSOP39440TR1	No	Yes
TSOP39233	No	Yes
TSOP59238	No	Yes
TSOP39356TR1	No	Yes
TSOP39330TR1	No	Yes
TSOP59333TR1	No	Yes
TSOP59538TR1	No	Yes
TSOP39538	No	Yes

TSOP39240	No	Yes
TSOP59533	No	Yes
TSOP39256	No	Yes
TSOP59233TR1	No	Yes
TSOP59236	No	Yes
TSOP59533TR1	No	Yes
TSOP39530	No	Yes
TSOP39556	No	Yes
TSOP59556TR1	No	Yes
TSOP59330	No	Yes
TSOP59436TR1	No	Yes
TSOP39433TR1	No	Yes
TSOP39536	No	Yes
TSOP39540	No	Yes
TSOP59456	No	Yes
TSOP59430TR1	No	Yes
TSOP59456TR1	No	Yes
TSOP59338	No	Yes
TSOP39340	No	Yes
TSOP59236TR1	No	Yes
TSOP59356	No	Yes
TSOP59536	No	Yes
TSOP59538	No	Yes
TSOP39338	No	Yes
TSOP39356	No	Yes
TSOP99240TR1	No	Yes
TSOP39436TR1	No	Yes
TSOP59440	No	Yes
TSOP59540	No	Yes
TSOP59256TR1	No	Yes
TSOP39530TR1	No	Yes
TSOP59438TR1	No	Yes
TSOP59240TR1	No	Yes
TSOP59433TR1	No	Yes
TSOP39556TR1	No	Yes
TSOP59336TR1	No	Yes
TSOP59438	No	Yes
TSOP59536TR1	No	Yes
TSOP39438	No	Yes
TSOP39236	No	Yes
TSOP39440	No	Yes
TSOP39533	No	Yes
TSOP39538TR1	No	Yes
TSOP39340TR1	No	Yes
TSOP39233TR1	No	Yes
TSOP59256	No	Yes
TSOP39430	No	Yes
TSOP39333	No	Yes

TSOP59530TR1	No	Yes
TSOP59238TR1	No	Yes
TSOP39236TR1	No	Yes
TSOP39540TR1	No	Yes
TSOP39333TR1	No	Yes
TSOP39456TR1	No	Yes
TSOP59436	No	Yes
TSOP39430TR1	No	Yes
TSOP59230	No	Yes
TSOP39456	No	Yes
TSOP99540TR1	No	Yes
TSOP59330TR1	No	Yes
TSOP59430	No	Yes
TSOP39230	No	Yes
TSOP39536TR1	No	Yes
TSOP39230TR1	No	Yes
TSOP59433	No	Yes
TSOP39256TR1	No	Yes
TSOP39438TR1	No	Yes