



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 Mneme) 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:

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.

Annotations about time schedule:

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:

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For further information, please contact your regional Vishay office.

CONTACT INFORMATION:

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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 |
| TSOP12240 | No | Yes |
| 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 |
| TSOP14338JH1 | No | Yes |
| TSOP14338JK1 | No | Yes |
| TSOP14338JK1F | No | Yes |
| TSOP14338SI1F | No | Yes |
| TSOP14338SS1F | No | Yes |
| 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 |
| TSOP2240RF1 | Yes | Yes |
| 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 |
| TSOP2540 | Yes | Yes |
| TSOP2556 | Yes | Yes |
| TSOP32130 | Yes | Yes |
| TSOP32133 | Yes | Yes |
| TSOP32136 | Yes | Yes |
| TSOP32136LL1 | Yes | Yes |
| TSOP32136LL1F | No | Yes |
| TSOP32136SJ1 | Yes | Yes |
| TSOP32136SS1F | No | Yes |
| TSOP32136YA1 | Yes | Yes |
| TSOP32136YA1F | No | Yes |
| TSOP32136ZC1F | No | Yes |
| TSOP32138 | Yes | Yes |
| TSOP32138LL1F | No | Yes |
| TSOP32138SB1 | Yes | Yes |
| TSOP32138SS1F | No | Yes |
| TSOP32138VI1F | No | Yes |
| TSOP32140 | Yes | Yes |
| TSOP32156 | Yes | Yes |
| TSOP32156SJ1 | Yes | Yes |
| TSOP32230 | Yes | Yes |
| TSOP32230SS1N | No | Yes |
| 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 |
| TSOP32238ZC1 | Yes | Yes |
| TSOP32240 | Yes | Yes |
| TSOP32256 | Yes | Yes |
| TSOP32256CD1F | No | Yes |
| TSOP32256CZ1 | Yes | Yes |
| TSOP32256SI1F | No | Yes |
| TSOP32256SS1F | No | Yes |
| TSOP32333 | Yes | Yes |
| TSOP32333YA1 | Yes | Yes |
| TSOP32336 | Yes | Yes |
| TSOP32336DE1 | Yes | Yes |
| TSOP32336IV1 | Yes | Yes |
| TSOP32336IV1F | No | Yes |
| TSOP32336JL1F | No | Yes |
| TSOP32336PM1F | No | Yes |
| TSOP32336SJ1 | Yes | Yes |
| TSOP32336SS1F | No | Yes |
| TSOP32336SS1FBS12Z | No | Yes |
| TSOP32336UH1F | No | Yes |
| TSOP32336VI1 | Yes | Yes |
| TSOP32336YA1 | Yes | Yes |
| TSOP32336YA1F | No | Yes |
| TSOP32338 | Yes | Yes |
| TSOP32338AY1 | Yes | Yes |
| TSOP32338CD1 | Yes | Yes |
| TSOP32338CD1F | No | Yes |
| TSOP32338DB1F | No | Yes |
| TSOP32338IV1F | No | Yes |
| TSOP32338LL1 | Yes | Yes |
| TSOP32338LL1F | No | Yes |
| TSOP32338QJ1 | Yes | Yes |
| TSOP32338SA1 | Yes | Yes |
| TSOP32338SB1 | Yes | Yes |
| TSOP32338SI1F | No | Yes |
| TSOP32338SS1F | No | Yes |
| TSOP32338SS1V | Yes | Yes |
| TSOP32338SS1VF | No | Yes |
| TSOP32338ST1F | No | Yes |
| TSOP32338VI1F | No | Yes |
| TSOP32338XG1 | Yes | Yes |
| TSOP32340 | Yes | Yes |
| TSOP32340VI1 | Yes | Yes |
| TSOP32356 | Yes | Yes |
| TSOP32356CD1F | No | Yes |
| TSOP32356DE1 | Yes | Yes |
| TSOP32356SB1 | Yes | Yes |
| TSOP32433 | Yes | Yes |

| | | |
|--------------------|-----|-----|
| TSOP32433YA1 | Yes | Yes |
| TSOP32436 | Yes | Yes |
| TSOP32436JK1F | No | Yes |
| TSOP32436SB1 | Yes | Yes |
| TSOP32436SS1F | No | Yes |
| TSOP32436SS1VF | No | Yes |
| TSOP32438 | Yes | Yes |
| TSOP32438CD1F | No | Yes |
| TSOP32438IV1 | Yes | Yes |
| TSOP32438LL1 | Yes | Yes |
| TSOP32438QJ1 | Yes | Yes |
| TSOP32438SA1F | No | Yes |
| TSOP32438SI1F | No | Yes |
| TSOP32438SS1F | No | Yes |
| TSOP32438SS1FBS12Z | No | Yes |
| TSOP32438SS1V | Yes | Yes |
| TSOP32438VI1 | Yes | Yes |
| TSOP32438WE1 | Yes | Yes |
| TSOP32438XG1 | Yes | Yes |
| TSOP32438YA1 | Yes | Yes |
| TSOP32440 | Yes | Yes |
| TSOP32456 | Yes | Yes |
| TSOP32530 | Yes | Yes |
| TSOP32533 | Yes | Yes |
| TSOP32536 | Yes | Yes |
| TSOP32536PM1F | No | Yes |
| TSOP32538 | Yes | Yes |
| TSOP32538DL1 | Yes | Yes |
| TSOP32538IV1 | Yes | Yes |
| TSOP32538LL1 | Yes | Yes |
| TSOP32540 | Yes | Yes |
| TSOP32556 | Yes | Yes |
| TSOP32C56CD1F | No | Yes |
| TSOP33136 | Yes | Yes |
| TSOP33138 | Yes | Yes |
| TSOP33140 | Yes | Yes |
| TSOP33156 | Yes | Yes |
| TSOP33230 | Yes | Yes |
| 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 |
| TSOP36138TR | Yes | Yes |
| TSOP36138TT | Yes | Yes |
| TSOP36140TR | Yes | Yes |
| TSOP36140TT | Yes | Yes |
| TSOP36156TR | Yes | Yes |
| TSOP36156TT | Yes | Yes |
| TSOP36230TR | Yes | Yes |
| TSOP36230TT | Yes | Yes |
| TSOP36233TR | Yes | Yes |
| TSOP36233TT | Yes | Yes |
| TSOP36236TR | Yes | Yes |
| TSOP36236TT | Yes | Yes |
| TSOP36238TR | Yes | Yes |
| TSOP36238TT | Yes | Yes |
| TSOP36240TR | Yes | Yes |
| TSOP36240TT | Yes | Yes |
| TSOP36256TR | Yes | Yes |
| TSOP36256TT | Yes | Yes |

| | | |
|-----------------|-----|-----|
| TSOP36330TR | Yes | Yes |
| TSOP36330TT | Yes | Yes |
| TSOP36333TR | Yes | Yes |
| TSOP36333TT | Yes | Yes |
| TSOP36336FTR | Yes | Yes |
| TSOP36336FTT | Yes | Yes |
| TSOP36336TR | Yes | Yes |
| TSOP36336TT | Yes | Yes |
| TSOP36338FTR | Yes | Yes |
| TSOP36338FTT | Yes | Yes |
| TSOP36338TR | Yes | Yes |
| TSOP36338TT | Yes | Yes |
| TSOP36340TR | Yes | Yes |
| TSOP36340TT | Yes | Yes |
| TSOP36356FTR | Yes | Yes |
| TSOP36356TR | Yes | Yes |
| TSOP36356TT | Yes | Yes |
| TSOP36430TR | Yes | Yes |
| TSOP36430TT | Yes | Yes |
| TSOP36433TR | Yes | Yes |
| TSOP36433TT | Yes | Yes |
| TSOP36436TR | Yes | Yes |
| TSOP36436TT | Yes | Yes |
| TSOP36438FTR | Yes | Yes |
| TSOP36438FTT | Yes | Yes |
| TSOP36438TR | Yes | Yes |
| TSOP36438TT | Yes | Yes |
| TSOP36438VTT | Yes | Yes |
| TSOP36440TR | Yes | Yes |
| TSOP36440TT | Yes | Yes |
| TSOP36456FTR | No | Yes |
| TSOP36456NTR | No | Yes |
| TSOP36456TR | Yes | Yes |
| TSOP36456TT | Yes | Yes |
| TSOP36530TR | Yes | Yes |
| TSOP36530TT | Yes | Yes |
| TSOP36533TR | Yes | Yes |
| TSOP36533TT | Yes | Yes |
| TSOP36536TR | Yes | Yes |
| TSOP36536TT | Yes | Yes |
| TSOP36538TR | Yes | Yes |
| TSOP36538TT | Yes | Yes |
| TSOP36540TR | Yes | Yes |
| TSOP36540TT | Yes | Yes |
| TSOP36556TR | Yes | Yes |
| TSOP36556TT | Yes | Yes |
| TSOP4130 | Yes | Yes |
| TSOP4130SS1BS12 | Yes | Yes |

| | | |
|------------------|-----|-----|
| TSOP4133 | Yes | Yes |
| TSOP4136 | Yes | Yes |
| TSOP4136LL1 | Yes | Yes |
| TSOP4138 | Yes | Yes |
| TSOP4138JH1 | Yes | Yes |
| TSOP4138JK1 | Yes | Yes |
| TSOP4138SB1 | Yes | Yes |
| TSOP4138SS1F | No | Yes |
| TSOP4138SS1N | No | Yes |
| TSOP4138SS1S | Yes | Yes |
| TSOP4138ST1 | Yes | Yes |
| TSOP4140 | Yes | Yes |
| TSOP4156 | Yes | Yes |
| TSOP4330 | Yes | Yes |
| TSOP4333 | Yes | Yes |
| TSOP4336 | Yes | Yes |
| TSOP4336JK1FA | No | Yes |
| TSOP4338 | Yes | Yes |
| TSOP4338CZ1FA | No | Yes |
| TSOP4338JK1 | Yes | Yes |
| TSOP4338JK1F | No | Yes |
| TSOP4338JK1FA | No | Yes |
| TSOP4338SB1 | Yes | Yes |
| TSOP4338SS1F | No | Yes |
| TSOP4338SS1OS12 | Yes | Yes |
| TSOP4338VI1F | No | Yes |
| TSOP4338XG1F | No | Yes |
| TSOP4340 | Yes | Yes |
| TSOP4356 | Yes | Yes |
| TSOP4430 | Yes | Yes |
| TSOP4433 | Yes | Yes |
| TSOP4436 | Yes | Yes |
| TSOP4436CZ1 | Yes | Yes |
| TSOP4436VI1 | Yes | Yes |
| TSOP4438 | Yes | Yes |
| TSOP4438CZ1 | Yes | Yes |
| TSOP4438DB1F | No | Yes |
| TSOP4438DK1F | No | Yes |
| TSOP4438DN1F | No | Yes |
| TSOP4438QJ1 | Yes | Yes |
| TSOP4438RF1 | Yes | Yes |
| TSOP4438SJ1 | Yes | Yes |
| TSOP4438SO1 | Yes | Yes |
| TSOP4438SS1BS12Z | Yes | Yes |
| TSOP4438SS1F | No | Yes |
| TSOP4438ST1 | Yes | Yes |
| TSOP4438UH1 | Yes | Yes |
| TSOP4438VI1F | No | Yes |

| | | |
|------------------|-----|-----|
| TSOP4438YA1 | Yes | Yes |
| TSOP4438ZC1 | Yes | Yes |
| TSOP4440 | Yes | Yes |
| TSOP4456 | Yes | Yes |
| TSOP4536 | Yes | Yes |
| TSOP4538 | Yes | Yes |
| TSOP4538SP1 | Yes | Yes |
| TSOP4540 | Yes | Yes |
| TSOP4556 | Yes | Yes |
| TSOP4830 | Yes | Yes |
| TSOP4830SS1BS12 | Yes | Yes |
| TSOP4830SS1F | No | Yes |
| TSOP4833 | Yes | Yes |
| TSOP4833SS1BS12Z | Yes | Yes |
| TSOP4836 | Yes | Yes |
| TSOP4836LL1 | Yes | Yes |
| TSOP4836SB1 | Yes | Yes |
| TSOP4836SI1 | Yes | Yes |
| TSOP4836SP1 | Yes | Yes |
| TSOP4836SS1BS12 | Yes | Yes |
| TSOP4836SS1F | No | Yes |
| TSOP4836ST1 | Yes | Yes |
| TSOP4836YA1 | Yes | Yes |
| TSOP4836ZC1 | Yes | Yes |
| TSOP4838 | Yes | Yes |
| TSOP4838AY1 | Yes | Yes |
| TSOP4838CZ1 | Yes | Yes |
| TSOP4838LL1 | Yes | Yes |
| TSOP4838QJ1 | Yes | Yes |
| TSOP4838RF1 | Yes | Yes |
| TSOP4838SB1 | Yes | Yes |
| TSOP4838SJ1 | Yes | Yes |
| TSOP4838SO1 | Yes | Yes |
| TSOP4838SS1BS12Z | Yes | Yes |
| TSOP4838SS1F | No | Yes |
| TSOP4838ST1 | Yes | Yes |
| TSOP4838UH1 | Yes | Yes |
| TSOP4838VI1 | Yes | Yes |
| TSOP4838YA1 | Yes | Yes |
| TSOP4840 | Yes | Yes |
| TSOP4840SB1 | Yes | Yes |
| TSOP4840SB1S | Yes | Yes |
| TSOP4840SJ1 | Yes | Yes |
| TSOP4856 | Yes | Yes |
| TSOP4856SS1F | No | Yes |
| TSOP4856SS1N | No | Yes |
| TSOP53130 | Yes | Yes |
| TSOP53133 | Yes | Yes |

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|-----------------|-----|-----|
| TSOP53136 | Yes | Yes |
| TSOP53138 | Yes | Yes |
| TSOP53140 | Yes | Yes |
| TSOP53156 | Yes | Yes |
| TSOP53230 | Yes | Yes |
| TSOP53233 | Yes | Yes |
| TSOP53236 | Yes | Yes |
| TSOP53238 | Yes | Yes |
| TSOP53240 | Yes | Yes |
| TSOP53256 | Yes | Yes |
| TSOP53256DR1F | No | Yes |
| TSOP53256SS1F | No | Yes |
| TSOP53256ST1F | No | Yes |
| TSOP53330 | Yes | Yes |
| TSOP53333 | Yes | Yes |
| TSOP53336 | Yes | Yes |
| TSOP53338 | Yes | Yes |
| TSOP53338CA1 | Yes | Yes |
| TSOP53338DF1PF | No | Yes |
| TSOP53338DP1F | No | Yes |
| TSOP53338DR1F | No | Yes |
| TSOP53338P16TR | Yes | Yes |
| TSOP53338SS1F | No | Yes |
| TSOP53338ST1F | No | Yes |
| TSOP53340 | Yes | Yes |
| TSOP53356 | Yes | Yes |
| TSOP53356P10TR | Yes | Yes |
| TSOP53433 | Yes | Yes |
| TSOP53436 | Yes | Yes |
| TSOP53436DF1P | Yes | Yes |
| TSOP53436P16FTR | No | Yes |
| TSOP53436SS1F | No | Yes |
| TSOP53438 | Yes | Yes |
| TSOP53438DF1P | Yes | Yes |
| TSOP53438DF1PF | No | Yes |
| TSOP53438DR1 | Yes | Yes |
| TSOP53438P16FTR | No | Yes |
| TSOP53438SS1F | No | Yes |
| TSOP53438ST1 | Yes | Yes |
| TSOP53440 | Yes | Yes |
| TSOP53456 | Yes | Yes |
| TSOP53456DP1 | Yes | Yes |
| TSOP53456SS1F | No | Yes |
| TSOP53456ST1F | No | Yes |
| TSOP53530 | Yes | Yes |
| TSOP53533 | Yes | Yes |
| TSOP53536 | Yes | Yes |
| TSOP53538 | Yes | Yes |

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|-------------|-----|-----|
| TSOP53540 | Yes | Yes |
| TSOP53556 | Yes | Yes |
| TSOP53940 | Yes | Yes |
| TSOP6130TR | Yes | Yes |
| TSOP6130TT | Yes | Yes |
| TSOP6133TR | Yes | Yes |
| TSOP6133TT | Yes | Yes |
| TSOP6136TR | Yes | Yes |
| TSOP6136TT | Yes | Yes |
| TSOP6138FTR | No | Yes |
| TSOP6138FTT | No | Yes |
| TSOP6138NTR | No | Yes |
| TSOP6138NTT | No | Yes |
| TSOP6138TR | Yes | Yes |
| TSOP6138TT | Yes | Yes |
| TSOP6140TR | Yes | Yes |
| TSOP6140TT | Yes | Yes |
| TSOP6156TR | Yes | Yes |
| TSOP6156TT | Yes | Yes |
| TSOP6230TR | Yes | Yes |
| TSOP6230TT | Yes | Yes |
| TSOP6233TR | Yes | Yes |
| TSOP6233TT | Yes | Yes |
| TSOP6236TR | Yes | Yes |
| TSOP6236TT | Yes | Yes |
| TSOP6238FTR | No | Yes |
| TSOP6238FTT | No | Yes |
| TSOP6238TR | Yes | Yes |
| TSOP6238TT | Yes | Yes |
| TSOP6240STT | | |
| TSOP6240TR | Yes | Yes |
| TSOP6240TT | Yes | Yes |
| TSOP6256TR | Yes | Yes |
| TSOP6256TT | Yes | Yes |
| TSOP6330TR | Yes | Yes |
| TSOP6330TT | Yes | Yes |
| TSOP6333TR | Yes | Yes |
| TSOP6333TT | Yes | Yes |
| TSOP6336TR | Yes | Yes |
| TSOP6336TT | Yes | Yes |
| TSOP6338TR | Yes | Yes |
| TSOP6338TT | Yes | Yes |
| TSOP6340TR | Yes | Yes |
| TSOP6340TT | Yes | Yes |
| TSOP6356TR | Yes | Yes |
| TSOP6356TT | Yes | Yes |
| TSOP6430TR | Yes | Yes |
| TSOP6430TT | Yes | Yes |

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|--------------|-----|-----|
| TSOP6433TR | Yes | Yes |
| TSOP6433TT | Yes | Yes |
| TSOP6436TR | Yes | Yes |
| TSOP6436TT | Yes | Yes |
| TSOP6438FTR | No | Yes |
| TSOP6438FTT | No | Yes |
| TSOP6438TR | Yes | Yes |
| TSOP6438TT | Yes | Yes |
| TSOP6440TR | Yes | Yes |
| TSOP6440TT | Yes | Yes |
| TSOP6456FTR | No | Yes |
| TSOP6456TR | Yes | Yes |
| TSOP6456TT | Yes | Yes |
| TSOP6536TR | Yes | Yes |
| TSOP6536TT | Yes | Yes |
| TSOP6538 | Yes | Yes |
| TSOP6538TR | Yes | Yes |
| TSOP6538TT | Yes | Yes |
| TSOP6540TR | Yes | Yes |
| TSOP6540TT | Yes | Yes |
| TSOP6556TR | Yes | Yes |
| TSOP6556TT | Yes | Yes |
| TSOP6940TT | Yes | Yes |
| TSOP75230TR | Yes | Yes |
| TSOP75230TT | Yes | Yes |
| TSOP75230WTR | Yes | Yes |
| TSOP75230WTT | Yes | Yes |
| TSOP75233TR | Yes | Yes |
| TSOP75233TT | Yes | Yes |
| TSOP75233WTR | Yes | Yes |
| TSOP75233WTT | Yes | Yes |
| TSOP75236TR | Yes | Yes |
| TSOP75236TT | Yes | Yes |
| TSOP75236WTR | Yes | Yes |
| TSOP75236WTT | Yes | Yes |
| TSOP75238TR | Yes | Yes |
| TSOP75238TT | Yes | Yes |
| TSOP75238WTR | Yes | Yes |
| TSOP75238WTT | Yes | Yes |
| TSOP75240TR | Yes | Yes |
| TSOP75240TT | Yes | Yes |
| TSOP75240WTR | Yes | Yes |
| TSOP75240WTT | Yes | Yes |
| TSOP75256TR | Yes | Yes |
| TSOP75256TT | Yes | Yes |
| TSOP75256WTR | Yes | Yes |
| TSOP75256WTT | Yes | Yes |
| TSOP75330TR | Yes | Yes |

| | | |
|----------------|-----|-----|
| TSOP75330TT | Yes | Yes |
| TSOP75330WTR | Yes | Yes |
| TSOP75330WTT | Yes | Yes |
| TSOP75333TR | Yes | Yes |
| TSOP75333WTR | Yes | Yes |
| TSOP75333WTT | Yes | Yes |
| TSOP75336TR | Yes | Yes |
| TSOP75336TT | Yes | Yes |
| TSOP75336WTR | Yes | Yes |
| TSOP75336WTT | Yes | Yes |
| TSOP75338FTR | Yes | Yes |
| TSOP75338TR | Yes | Yes |
| TSOP75338TT | Yes | Yes |
| TSOP75338VTR | Yes | Yes |
| TSOP75338VTT | Yes | Yes |
| TSOP75338WRFTT | Yes | Yes |
| TSOP75338WTR | Yes | Yes |
| TSOP75338WTT | Yes | Yes |
| TSOP75340TR | Yes | Yes |
| TSOP75340TT | Yes | Yes |
| TSOP75340WTR | Yes | Yes |
| TSOP75340WTT | Yes | Yes |
| TSOP75356TR | Yes | Yes |
| TSOP75356TT | Yes | Yes |
| TSOP75356WTR | Yes | Yes |
| TSOP75356WTT | Yes | Yes |
| TSOP75430TR | Yes | Yes |
| TSOP75430WTR | Yes | Yes |
| TSOP75430WTT | Yes | Yes |
| TSOP75433WTR | Yes | Yes |
| TSOP75433WTT | Yes | Yes |
| TSOP75436TR | Yes | Yes |
| TSOP75436TT | Yes | Yes |
| TSOP75436WTR | Yes | Yes |
| TSOP75436WTT | Yes | Yes |
| TSOP75438FTR | No | Yes |
| TSOP75438FTT | No | Yes |
| TSOP75438TR | Yes | Yes |
| TSOP75438TT | Yes | Yes |
| TSOP75438VFTR | No | Yes |
| TSOP75438VFTT | No | Yes |
| TSOP75438VFWTR | No | Yes |
| TSOP75438VTT | Yes | Yes |
| TSOP75438WTR | Yes | Yes |
| TSOP75438WTT | Yes | Yes |
| TSOP75440TR | Yes | Yes |
| TSOP75440TT | Yes | Yes |
| TSOP75440WTR | Yes | Yes |

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| TSOP75440WTT | Yes | Yes |
| TSOP75456TR | Yes | Yes |
| TSOP75456TT | Yes | Yes |
| TSOP75456WTR | Yes | Yes |
| TSOP75456WTT | Yes | Yes |
| TSOP75530TR | Yes | Yes |
| TSOP75530TT | Yes | Yes |
| TSOP75530WTR | Yes | Yes |
| TSOP75530WTT | Yes | Yes |
| TSOP75533TR | Yes | Yes |
| TSOP75533TT | Yes | Yes |
| TSOP75533WTR | Yes | Yes |
| TSOP75533WTT | Yes | Yes |
| TSOP75536TR | Yes | Yes |
| TSOP75536TT | Yes | Yes |
| TSOP75536WTR | Yes | Yes |
| TSOP75536WTT | Yes | Yes |
| TSOP75538FTR | Yes | Yes |
| TSOP75538FWTR | Yes | Yes |
| TSOP75538TR | Yes | Yes |
| TSOP75538TT | Yes | Yes |
| TSOP75538WTR | Yes | Yes |
| TSOP75538WTT | Yes | Yes |
| TSOP75540TR | Yes | Yes |
| TSOP75540TT | Yes | Yes |
| TSOP75540WTR | Yes | Yes |
| TSOP75540WTT | Yes | Yes |
| TSOP75556TR | Yes | Yes |
| TSOP75556TT | Yes | Yes |
| TSOP75556WTR | Yes | Yes |
| TSOP75556WTT | Yes | Yes |
| TSOP75G36TR | Yes | Yes |
| TSOP75S38FAPTR | No | Yes |
| TSOP75S40FSWTR | No | Yes |
| TSOP75S40FSWTT | No | Yes |
| TSOP75S40FWTR | No | Yes |
| TSOP75S40FWTT | No | Yes |
| TSOP75S40TR | Yes | Yes |
| TSOP77236TR | Yes | Yes |
| TSOP77236TT | Yes | Yes |
| TSOP77238TR | Yes | Yes |
| TSOP77238TT | Yes | Yes |
| TSOP77240SWTR | Yes | Yes |
| TSOP77256TR | Yes | Yes |
| TSOP77256TT | Yes | Yes |
| TSOP77333WTT | Yes | Yes |
| TSOP77336TR | Yes | Yes |
| TSOP77336TT | Yes | Yes |

| | | |
|---------------|-----|-----|
| TSOP77338FTR | No | Yes |
| TSOP77338FTT | No | Yes |
| TSOP77338TR | Yes | Yes |
| TSOP77338TT | Yes | Yes |
| TSOP77356TR | Yes | Yes |
| TSOP77356TT | Yes | Yes |
| TSOP77433TT | Yes | Yes |
| TSOP77436TR | Yes | Yes |
| TSOP77436TT | Yes | Yes |
| TSOP77436WTR | Yes | Yes |
| TSOP77436WTT | Yes | Yes |
| TSOP77438APTR | Yes | Yes |
| TSOP77438APTT | Yes | Yes |
| TSOP77438FTR | No | Yes |
| TSOP77438FTT | No | Yes |
| TSOP77438FWTT | No | Yes |
| TSOP77438TR | Yes | Yes |
| TSOP77438TT | Yes | Yes |
| TSOP77438WTR | Yes | Yes |
| TSOP77456TT | Yes | Yes |
| TSOP77456WTR | Yes | Yes |
| TSOP77536TR | Yes | Yes |
| TSOP77536TT | Yes | Yes |
| TSOP77538FTR | No | Yes |
| TSOP77538TR | Yes | Yes |
| TSOP77538TT | Yes | Yes |
| TSOP77556TR | Yes | Yes |
| TSOP77556TT | Yes | Yes |
| TSOP77940TT | Yes | Yes |
| TSOP77940WTR | Yes | Yes |
| TSOP93236 | No | Yes |
| TSOP93238 | No | Yes |
| TSOP93240 | No | Yes |
| TSOP93256 | No | Yes |
| TSOP93336 | No | Yes |
| TSOP93338 | No | Yes |
| TSOP93340 | No | Yes |
| TSOP93356 | No | Yes |
| TSOP93436 | No | Yes |
| TSOP93438 | No | Yes |
| TSOP93438SS1F | No | Yes |
| TSOP93440 | No | Yes |
| TSOP93456 | No | Yes |
| TSOP93536 | No | Yes |
| TSOP93538 | No | Yes |
| TSOP93540 | No | Yes |
| TSOP93556 | No | Yes |
| TSOP93636 | No | Yes |

| | | |
|--------------|----|-----|
| TSOP93638 | No | Yes |
| TSOP93638CA1 | No | Yes |
| TSOP93640 | No | Yes |
| TSOP93656 | No | Yes |
| TSOP94236 | No | Yes |
| TSOP94238 | No | Yes |
| TSOP94240 | No | Yes |
| TSOP94256 | No | Yes |
| TSOP94336 | No | Yes |
| TSOP94338 | No | Yes |
| TSOP94340 | No | Yes |
| TSOP94356 | No | Yes |
| TSOP94436 | No | Yes |
| TSOP94438 | No | Yes |
| TSOP94440 | No | Yes |
| TSOP94456 | No | Yes |
| TSOP94536 | No | Yes |
| TSOP94538 | No | Yes |
| TSOP94540 | No | Yes |
| TSOP94556 | No | Yes |
| TSOP94636 | No | Yes |
| TSOP94638 | No | Yes |
| TSOP94640 | No | Yes |
| TSOP94656 | No | Yes |
| TSOP95236TR | No | Yes |
| TSOP95236TT | No | Yes |
| TSOP95238TR | No | Yes |
| TSOP95238TT | No | Yes |
| TSOP95240TR | No | Yes |
| TSOP95240TT | No | Yes |
| TSOP95256TR | No | Yes |
| TSOP95256TT | No | Yes |
| TSOP95336TR | No | Yes |
| TSOP95336TT | No | Yes |
| TSOP95338TR | No | Yes |
| TSOP95338TT | No | Yes |
| TSOP95340TR | No | Yes |
| TSOP95340TT | No | Yes |
| TSOP95356TR | No | Yes |
| TSOP95356TT | No | Yes |
| TSOP95436TR | No | Yes |
| TSOP95436TT | No | Yes |
| TSOP95438TR | No | Yes |
| TSOP95438TT | No | Yes |
| TSOP95440TR | No | Yes |
| TSOP95440TT | No | Yes |
| TSOP95456TR | No | Yes |
| TSOP95456TT | No | Yes |

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|-------------|----|-----|
| TSOP95536TR | No | Yes |
| TSOP95536TT | No | Yes |
| TSOP95538TR | No | Yes |
| TSOP95538TT | No | Yes |
| TSOP95540TR | No | Yes |
| TSOP95540TT | No | Yes |
| TSOP95556TR | No | Yes |
| TSOP95556TT | No | Yes |
| TSOP95636TR | No | Yes |
| TSOP95636TT | No | Yes |
| TSOP95638TR | No | Yes |
| TSOP95638TT | No | Yes |
| TSOP95640TR | No | Yes |
| TSOP95640TT | No | Yes |
| TSOP95656TR | No | Yes |
| TSOP95656TT | No | Yes |
| TSOP96236TR | No | Yes |
| TSOP96236TT | No | Yes |
| TSOP96238TR | No | Yes |
| TSOP96238TT | No | Yes |
| TSOP96240TR | No | Yes |
| TSOP96240TT | No | Yes |
| TSOP96256TR | No | Yes |
| TSOP96256TT | No | Yes |
| TSOP96336TR | No | Yes |
| TSOP96336TT | No | Yes |
| TSOP96338TR | No | Yes |
| TSOP96338TT | No | Yes |
| TSOP96340TR | No | Yes |
| TSOP96340TT | No | Yes |
| TSOP96356TR | No | Yes |
| TSOP96356TT | No | Yes |
| TSOP96436TR | No | Yes |
| TSOP96436TT | No | Yes |
| TSOP96438TR | No | Yes |
| TSOP96438TT | No | Yes |
| TSOP96440TR | No | Yes |
| TSOP96440TT | No | Yes |
| TSOP96456TR | No | Yes |
| TSOP96456TT | No | Yes |
| TSOP96536TR | No | Yes |
| TSOP96536TT | No | Yes |
| TSOP96538TR | No | Yes |
| TSOP96538TT | No | Yes |
| TSOP96540TR | No | Yes |
| TSOP96540TT | No | Yes |
| TSOP96556TR | No | Yes |
| TSOP96556TT | No | Yes |

| | | |
|-----------------|-----|-----|
| TSOP96636TR | No | Yes |
| TSOP96636TT | No | Yes |
| TSOP96638TR | No | Yes |
| TSOP96638TT | No | Yes |
| TSOP96640TR | No | Yes |
| TSOP96640TT | No | Yes |
| TSOP96656TR | No | Yes |
| TSOP96656TT | No | Yes |
| TSSP13038 | No | Yes |
| TSSP14038 | No | Yes |
| TSSP15038TR | No | Yes |
| TSSP16038TR | No | Yes |
| TSSP4038 | Yes | Yes |
| TSSP4038CZ1XB | Yes | No |
| TSSP4038DL1 | Yes | Yes |
| TSSP4038LL1 | Yes | Yes |
| TSSP4038SD1 | Yes | Yes |
| TSSP4038SK1 | Yes | Yes |
| TSSP4038SS1XB | Yes | No |
| TSSP4038ST1 | Yes | Yes |
| TSSP4056 | Yes | Yes |
| TSSP4056SS1XB | Yes | No |
| TSSP4P38 | Yes | Yes |
| TSSP53038 | Yes | Yes |
| TSSP53038DF1P | Yes | Yes |
| TSSP53056 | Yes | Yes |
| TSSP6038TR | Yes | Yes |
| TSSP6038TT | Yes | Yes |
| TSSP6056TT | Yes | Yes |
| TSSP6P38TR | Yes | Yes |
| TSSP6P38TT | Yes | Yes |
| TSSP77038TR | Yes | Yes |
| TSSP77038TT | Yes | Yes |
| TSSP77P38TR | Yes | Yes |
| TSSP77P38TT | Yes | Yes |
| TSSP93038 | No | Yes |
| TSSP93038DF1PZA | No | Yes |
| TSSP93056 | No | Yes |
| TSSP94038 | No | Yes |
| TSSP94056 | No | Yes |
| TSSP95038TR | No | Yes |
| TSSP95056TR | No | Yes |
| TSSP96038TR | No | Yes |
| TSSP96056TR | No | Yes |
| TSOP38440 | No | Yes |
| TSMP58000DD1 | No | Yes |
| TSOP38356CZ1 | No | Yes |
| TSSP58038 | No | Yes |

| | | |
|-------------------|----|-----|
| HWXX38236SS1R | No | Yes |
| TSOP18140 | No | Yes |
| TSOP18438 | No | Yes |
| TSOP18438CZ1 | No | Yes |
| TSOP18436SS1BS21 | No | Yes |
| TSOP18540 | No | Yes |
| TSOP18436 | No | Yes |
| TSOP18538 | No | Yes |
| TSOP18636 | No | Yes |
| TSOP18138 | No | Yes |
| TSOP18236 | No | Yes |
| TSOP38138CZ1 | No | Yes |
| TSOP38236SB1 | No | Yes |
| TSOP38238PC1 | No | Yes |
| TSOP38438SJ1 | No | Yes |
| TSOP18240 | No | Yes |
| TSOP18356CZ1 | No | Yes |
| TSOP18436PC1 | No | Yes |
| TSOP18440 | No | Yes |
| TSOP18640 | No | Yes |
| TSOP18238ST1 | No | Yes |
| TSOP18356 | No | Yes |
| TSOP38540SB1 | No | Yes |
| TSOP18136 | No | Yes |
| TSOP18138DJ1 | No | Yes |
| TSSP58P38 | No | Yes |
| TSOP38136ST1 | No | Yes |
| TSOP38156CZ1 | No | Yes |
| TSOP38236DB1 | No | Yes |
| TSOP38236ST1 | No | Yes |
| TSOP38438CA1 | No | Yes |
| HS0038B45DSB1 | No | Yes |
| TSOP38538SS1BS12Z | No | Yes |
| TSOP39138CZ1 | No | Yes |
| TSOP38456 | No | Yes |
| TSOP98438DD1 | No | Yes |
| TSOP38338 | No | Yes |
| TSOP38438CZ1 | No | Yes |
| TSOP58436PA1 | No | Yes |
| TSOP38130DJ1 | No | Yes |
| TSOP58436 | No | Yes |
| TSOP58438CA1 | No | Yes |
| TSOP58538 | No | Yes |
| TSOP38130 | No | Yes |
| TSOP38538 | No | Yes |
| TSOP38338CA1 | No | Yes |
| TSOP98540 | No | Yes |
| TSOP38540 | No | Yes |

| | | |
|-------------------|----|-----|
| TSOP38436CC1 | No | Yes |
| TSOP38456CZ1 | No | Yes |
| TSOP38356CA1Y | No | Yes |
| TSOP38G36 | No | Yes |
| HWXX38338SS1V | No | Yes |
| TSOP38340 | No | Yes |
| TSOP38356PC1 | No | Yes |
| HWXX38236 | No | Yes |
| HWXX38338 | No | Yes |
| TSOP38140 | No | Yes |
| TSOP38233 | No | Yes |
| TSOP38238ST1 | No | Yes |
| TSOP98556 | No | Yes |
| TSOP58436CB1 | No | Yes |
| TSOP58436CZ1 | No | Yes |
| TSOP58438CB1 | No | Yes |
| HWXX38238 | No | Yes |
| TSOP18556 | No | Yes |
| HWXX58336 | No | Yes |
| TSOP58336 | No | Yes |
| TSOP58456 | No | Yes |
| TSOP18438CA1 | No | Yes |
| TSOP18538SS1BS12Z | No | Yes |
| TSOP58438CA1Y | No | Yes |
| TSOP18336ES1 | No | Yes |
| TSOP18540ST1 | No | Yes |
| HS0038B45D | No | Yes |
| TSOP18340 | No | Yes |
| TSOP38338CZ1 | No | Yes |
| TSOP38556 | No | Yes |
| TSOP38256SS1BS12 | No | Yes |
| TSOP38536PC1 | No | Yes |
| TSOP18138DH1 | No | Yes |
| TSOP18536 | No | Yes |
| TSOP38356 | No | Yes |
| TSOP18540SB1 | No | Yes |
| TSOP18656 | No | Yes |
| TSOP58240 | No | Yes |
| TSOP58138 | No | Yes |
| TSOP58238 | No | Yes |
| TSOP38156PC1 | No | Yes |
| TSOP38236SU1 | No | Yes |
| TSOP38438PC1 | No | Yes |
| TSOP38536 | No | Yes |
| TSOP38540ST1 | No | Yes |
| TSOP58556 | No | Yes |
| TSOP98436 | No | Yes |
| TSOP58440SJ1 | No | Yes |

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|------------------|----|-----|
| TSOP38436 | No | Yes |
| TSOP18256 | No | Yes |
| TSOP18336 | No | Yes |
| TSOP38430 | No | Yes |
| TSOP38456CA1 | No | Yes |
| HS0038B4DR | No | Yes |
| TSOP98338 | No | Yes |
| TSOP58456CA1 | No | Yes |
| TSOP38356CA1 | No | Yes |
| TSOP58338CE1 | No | Yes |
| TSOP58433 | No | Yes |
| TSOP98356 | No | Yes |
| TSOP38238SB1 | No | Yes |
| TSOP38256 | No | Yes |
| TSOP98340 | No | Yes |
| TSOP98538 | No | Yes |
| TSOP98638 | No | Yes |
| TSOP98656 | No | Yes |
| TSOP58438CE1 | No | Yes |
| TSOP38436CA1 | No | Yes |
| TSOP58438SO1 | No | Yes |
| HWXX39438ST1R | No | Yes |
| HWXX58238 | No | Yes |
| TSOP38136 | No | Yes |
| TSOP38156 | No | Yes |
| TSOP58436PA1Y | No | Yes |
| TSOP38138ST1 | No | Yes |
| TSOP38238SS1V | No | Yes |
| TSOP38240ST1S | No | Yes |
| TSOP58140 | No | Yes |
| TSOP58238SB1 | No | Yes |
| HWXX58038 | No | Yes |
| HWXX58436SS1BS21 | No | Yes |
| HWXX58236 | No | Yes |
| TSOP38436DJ1 | No | Yes |
| TSOP38G36DD1 | No | Yes |
| TSOP58438 | No | Yes |
| TSOP98240 | No | Yes |
| TSOP58436PC1 | No | Yes |
| TSOP38240SS1S | No | Yes |
| TSOP58430 | No | Yes |
| TSMP58138SB1 | No | Yes |
| TSOP98438 | No | Yes |
| TSOP39238CZ1 | No | Yes |
| TSOP38436PC1 | No | Yes |
| TSOP58336PC1 | No | Yes |
| 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 |

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|--------------|----|-----|
| 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 |