

Product / Process Change Notification



N° 2014-007-A

Dear Customer,

Please find attached our INFINEON Technologies PCN:

- 1. Harmonization of chip top metallization for dedicated OptiMOS™ products in TDSO8 & TSDSO8 package**
- 2. Capacity extension for OptiMOS™3 150V products**

Important information for your attention:

- Please respond to this PCN by indicating your decision on the approval form, sign it and return to your sales partner before **10. August 2014**.
- Infineon aligns with the widely-recognized JEDEC STANDARD "JESD46", which stipulates: "Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change."

Your prompt reply will help Infineon Technologies to assure a smooth and well executed transition. If Infineon does not hear from your side by the due date, we will assume your full acceptance to this proposed change and its implementation.

Your attention and response to this matter is greatly appreciated.

Disclaimer:

If we do not receive any response by the date in the PCN above we consider this as the acceptance of the PCN.

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- SUBJECT OF CHANGE:**
1. Harmonisation of chip top solder pad metallization for dedicated OptiMOS™ products in TDSO-8 and TSDSO-8 packages
 2. Extension of wafer production capacity for OptiMOS™3 150V by using Infineon Technologies Sdn. Bhd., Kulim, Malaysia as an additional wafer production site

PRODUCTS AFFECTED: Products are listed in attachment 1_cip14007_a

- REASON OF CHANGE:**
1. Increase of high volume manufacturing capability
 2. Implementation of second production site for improved delivery security

| | <u>OLD</u> | <u>NEW</u> |
|---|--|---|
| ■ Chip top solder pad metallization | Ni/Ag based | Cu based |
| ■ Wafer production for OptiMOS™3 150V technology | Infineon Technologies AG, Regensburg, Germany | Infineon Technologies AG, Regensburg, Germany and Infineon Technologies Sdn. Bhd., Kulim, Malaysia |
| ■ Wafer testing site for OptiMOS™3 150V technology | Infineon Technologies AG, Regensburg, Germany and Infineon Technologies Austria AG, Villach, Austria | Infineon Technologies AG, Regensburg, Germany and Infineon Technologies Austria AG, Villach, Austria and Infineon Technologies Sdn. Bhd., Kulim, Malaysia |

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PRODUCT IDENTIFICATION: Full traceability through lot number, Baunumber Material number and marking on device.

TIME SCHEDULE:

- | | |
|-------------------------------|--|
| ■ Final qualification report: | See attachment 2_cip14007_a |
| ■ First samples available: | On request, lead time 6-12 weeks (depending on product) |
| ■ Start of delivery: | Earliest after customer approval, latest 15th October 2014 |

ASSESSMENT:

- **NO** impact on electrical, thermal parameters and reliability as proven via product qualification and characterization.
- **NO** change in existing datasheet parameters
- **NO** changes in fit, form and function, quality and reliability.
- Stable production is proven by shipment of **>300Mio** pcs on this Cu based metallization process without any related customer returns.
- **NO** other changes in bill of material except the change of chip top solder pad metallization from **Ni/Ag based to Cu based**.

DOCUMENTATION:

- | | |
|--------------|------------------------------|
| 1_cip14007_a | Affected products |
| 2_cip14007_a | Final Qualification Report |
| 3_cip14007_a | Customer Information Package |

PCN N° 2014-007-A

1. Harmonization of chip top metallization for dedicated OptiMOS™ products in TDSON & TSDSON package

2. Capacity extension for OptiMOS™3 150V products



| Sales Name | Current SP number | OPN | Package | Harmonisation of chip top metallization | Capacity extension of OptiMOS™3 150V products |
|----------------------|-------------------|-------------------------|------------|---|---|
| BSC014N03LS G | SP000394677 | BSC014N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC014N03MS G | SP000394681 | BSC014N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC016N03LS G | SP000237663 | BSC016N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC016N03MS G | SP000311502 | BSC016N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC016N04LS G | SP000394801 | BSC016N04LSGATMA1 | PG-TDSON-8 | x | |
| BSC016N04LS G E8193 | SP001212156 | BSC016N04LSGE8193ATMA1 | PG-TDSON-8 | x | |
| BSC017N04NS G | SP000394684 | BSC017N04NSGATMA1 | PG-TDSON-8 | x | |
| BSC018N04LS G | SP000388293 | BSC018N04LSGATMA1 | PG-TDSON-8 | x | |
| BSC019N02KS G | SP000307376 | BSC019N02KSGAUMA1 | PG-TDSON-8 | x | |
| BSC019N04NS G | SP000388299 | BSC019N04NSGATMA1 | PG-TDSON-8 | x | |
| BSC019N04NS G E8186 | SP000926242 | BSC019N04NSGE8186ATMA1 | PG-TDSON-8 | x | |
| BSC020N03LS G | SP000237662 | BSC020N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC020N03LS G | SP000959514 | BSC020N03LSGATMA2 | PG-TDSON-8 | x | |
| BSC020N03MS G | SP000311503 | BSC020N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC025N03LS G | SP000269781 | BSC025N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC025N03MS G | SP000311505 | BSC025N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC026N02KS G | SP000379664 | BSC026N02KSGAUMA1 | PG-TDSON-8 | x | |
| BSC027N04LS G | SP000354810 | BSC027N04LSGATMA1 | PG-TDSON-8 | x | |
| BSC028N06LS3 G | SP000453652 | BSC028N06LS3GATMA1 | PG-TDSON-8 | x | |
| BSC030N03LS G | SP000237661 | BSC030N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC030N03LS G E8176 | SP000639150 | BSC030N03LSGE8176ATMA1 | PG-TDSON-8 | x | |
| BSC030N03MS G | SP000311506 | BSC030N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC030N04NS G | SP000354811 | BSC030N04NSGATMA1 | PG-TDSON-8 | x | |
| BSC030P03NS3 G | SP000442470 | BSC030P03NS3GAUMA1 | PG-TDSON-8 | x | |
| BSC031N06NS3 G | SP000451482 | BSC031N06NS3GATMA1 | PG-TDSON-8 | x | |
| BSC031N06NS3 G E8186 | SP000926244 | BSC031N06NS3GE8186ATMA1 | PG-TDSON-8 | x | |
| BSC034N03LS G | SP000475948 | BSC034N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC034N03LS G | SP000475948 | BSC034N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC035N04LS G | SP000391503 | BSC035N04LSGATMA1 | PG-TDSON-8 | x | |
| BSC036NE7NS3 G | SP000907920 | BSC036NE7NS3GATMA1 | PG-TDSON-8 | x | |
| BSC042N03LS G | SP000302864 | BSC042N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC042N03LS G | SP000302864 | BSC042N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC042N03MS G | SP000311512 | BSC042N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC042N03MS G | SP000311512 | BSC042N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC042NE7NS3 G | SP000657440 | BSC042NE7NS3GATMA1 | PG-TDSON-8 | x | |
| BSC046N02KS G | SP000379666 | BSC046N02KSGAUMA1 | PG-TDSON-8 | x | |
| BSC046N10NS3 G | SP000907922 | BSC046N10NS3GATMA1 | PG-TDSON-8 | x | |
| BSC047N08NS3 G | SP000436372 | BSC047N08NS3GATMA1 | PG-TDSON-8 | x | |
| BSC050N03LS G | SP000269785 | BSC050N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC050N03LS G | SP000269785 | BSC050N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC050N03MS G | SP000311507 | BSC050N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC050N03MS G | SP000311507 | BSC050N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC050N04LS G | SP000354806 | BSC050N04LSGATMA1 | PG-TDSON-8 | x | |
| BSC054N04NS G | SP000354808 | BSC054N04NSGATMA1 | PG-TDSON-8 | x | |
| BSC057N03LS G | SP000275113 | BSC057N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC057N03LS G | SP000275113 | BSC057N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC057N03LS G E8176 | SP000639088 | BSC057N03LSGE8176ATMA1 | PG-TDSON-8 | x | |
| BSC057N03MS G | SP000311513 | BSC057N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC057N03MS G | SP000311513 | BSC057N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC057N08NS3 G | SP000447542 | BSC057N08NS3GATMA1 | PG-TDSON-8 | x | |
| BSC059N04LS G | SP000391499 | BSC059N04LSGATMA1 | PG-TDSON-8 | x | |
| BSC060N10NS3 G | SP000446584 | BSC060N10NS3GATMA1 | PG-TDSON-8 | x | |
| BSC060P03NS3E G | SP000472984 | BSC060P03NS3EGATMA1 | PG-TDSON-8 | x | |
| BSC067N06LS3 G | SP000451084 | BSC067N06LS3GATMA1 | PG-TDSON-8 | x | |
| BSC067N06LS3 G | SP000451084 | BSC067N06LS3GATMA1 | PG-TDSON-8 | x | |
| BSC070N10NS3 G | SP000778082 | BSC070N10NS3GATMA1 | PG-TDSON-8 | x | |
| BSC076N06NS3 G | SP000453656 | BSC076N06NS3GATMA1 | PG-TDSON-8 | x | |
| BSC077N12NS3 G | SP000652750 | BSC077N12NS3GATMA1 | PG-TDSON-8 | x | |
| BSC079N03LSC G | SP000527424 | BSC079N03LSCGATMA1 | PG-TDSON-8 | x | |
| BSC079N03LSC G | SP000527424 | BSC079N03LSCGATMA1 | PG-TDSON-8 | x | |
| BSC079N10NS G | SP000379590 | BSC079N10NSGATMA1 | PG-TDSON-8 | x | |
| BSC080N03LS G | SP000275114 | BSC080N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC080N03LS G | SP000275114 | BSC080N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC080N03MS G | SP000311514 | BSC080N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC080N03MS G | SP000311514 | BSC080N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC082N10LS G | SP000379609 | BSC082N10LSGATMA1 | PG-TDSON-8 | x | |
| BSC084P03NS3 G | SP000473020 | BSC084P03NS3GATMA1 | PG-TDSON-8 | x | |
| BSC0909NS | SP000832576 | BSC0909NSATMA1 | PG-TDSON-8 | x | |
| BSC0909NS | SP000832576 | BSC0909NSATMA1 | PG-TDSON-8 | x | |
| BSC090N03LS G | SP000275115 | BSC090N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC090N03LS G | SP000275115 | BSC090N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC090N03MS G | SP000313120 | BSC090N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC093N04LS G | SP000387929 | BSC093N04LSGATMA1 | PG-TDSON-8 | x | |
| BSC093N04LS G | SP000387929 | BSC093N04LSGATMA1 | PG-TDSON-8 | x | |

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|---------------------|-------------|------------------------|-------------|---|---|
| BSC100N03MS G | SP000311515 | BSC100N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC100N03MS G | SP000311515 | BSC100N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC100N06LS3 G | SP000453664 | BSC100N06LS3GATMA1 | PG-TDSON-8 | x | |
| BSC100N10NSF G | SP000379595 | BSC100N10NSFGATMA1 | PG-TDSON-8 | x | |
| BSC105N10LSF G | SP000388502 | BSC105N10LSFGATMA1 | PG-TDSON-8 | x | |
| BSC109N10NS3 G | SP000778132 | BSC109N10NS3GATMA1 | PG-TDSON-8 | x | |
| BSC110N06NS3 G | SP000453668 | BSC110N06NS3GATMA1 | PG-TDSON-8 | x | |
| BSC118N10NS G | SP000379599 | BSC118N10NSGATMA1 | PG-TDSON-8 | x | |
| BSC120N03LS G | SP000302848 | BSC120N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC120N03LS G | SP000302848 | BSC120N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC120N03MS G | SP000311516 | BSC120N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC120N03MS G | SP000311516 | BSC120N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC123N08NS3 G | SP000443916 | BSC123N08NS3GATMA1 | PG-TDSON-8 | x | |
| BSC123N10LS G | SP000379612 | BSC123N10LSGATMA1 | PG-TDSON-8 | x | |
| BSC159N10LSF G | SP000379614 | BSC159N10LSFGATMA1 | PG-TDSON-8 | x | |
| BSC160N10NS3 G | SP000482382 | BSC160N10NS3GATMA1 | PG-TDSON-8 | x | |
| BSC190N12NS3 G | SP000652752 | BSC190N12NS3GATMA1 | PG-TDSON-8 | x | |
| BSC190N15NS3 G | SP000416636 | BSC190N15NS3GATMA1 | PG-TDSON-8 | x | x |
| BSC196N10NS G | SP000379604 | BSC196N10NSGATMA1 | PG-TDSON-8 | x | |
| BSC252N10NSF G | SP000379608 | BSC252N10NSFGATMA1 | PG-TDSON-8 | x | |
| BSC265N10LSF G | SP000379618 | BSC265N10LSFGATMA1 | PG-TDSON-8 | x | |
| BSC340N08NS3 G | SP000447534 | BSC340N08NS3GATMA1 | PG-TDSON-8 | x | |
| BSC360N15NS3 G | SP000778134 | BSC360N15NS3GATMA1 | PG-TDSON-8 | x | x |
| BSC440N10NS3 G | SP000482420 | BSC440N10NS3GATMA1 | PG-TDSON-8 | x | |
| BSC520N15NS3 G | SP000521716 | BSC520N15NS3GATMA1 | PG-TDSON-8 | x | x |
| BSC882N03LS G | SP000686916 | BSC882N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC883N03LS G | SP000507422 | BSC883N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC883N03LS G | SP000507422 | BSC883N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC884N03MS G | SP000507414 | BSC884N03MSGATMA1 | PG-TDSON-8 | x | |
| BSC886N03LS G | SP000475950 | BSC886N03LSGATMA1 | PG-TDSON-8 | x | |
| BSC886N03LS G | SP000475950 | BSC886N03LSGATMA1 | PG-TDSON-8 | x | |
| BSZ035N03LS G | SP000278809 | BSZ035N03LSGATMA1 | PG-TSDSON-8 | x | |
| BSZ035N03MS G | SP000311511 | BSZ035N03MSGATMA1 | PG-TSDSON-8 | x | |
| BSZ035N03MS G | SP000311511 | BSZ035N03MSGATMA1 | PG-TSDSON-8 | x | |
| BSZ040N04LS G | SP000388295 | BSZ040N04LSGATMA1 | PG-TSDSON-8 | x | |
| BSZ040N04LS G | SP000388295 | BSZ040N04LSGATMA1 | PG-TSDSON-8 | x | |
| BSZ042N04NS G | SP000388300 | BSZ042N04NSGATMA1 | PG-TSDSON-8 | x | |
| BSZ050N03LS G | SP000304139 | BSZ050N03LSGATMA1 | PG-TSDSON-8 | x | |
| BSZ050N03LS G | SP000304139 | BSZ050N03LSGATMA1 | PG-TSDSON-8 | x | |
| BSZ050N03MS G | SP000311518 | BSZ050N03MSGATMA1 | PG-TSDSON-8 | x | |
| BSZ050N03MS G | SP000311518 | BSZ050N03MSGATMA1 | PG-TSDSON-8 | x | |
| BSZ058N03LS G | SP000307424 | BSZ058N03LSGATMA1 | PG-TSDSON-8 | x | |
| BSZ058N03LS G | SP000307424 | BSZ058N03LSGATMA1 | PG-TSDSON-8 | x | |
| BSZ058N03MS G | SP000311508 | BSZ058N03MSGATMA1 | PG-TSDSON-8 | x | |
| BSZ058N03MS G | SP000311508 | BSZ058N03MSGATMA1 | PG-TSDSON-8 | x | |
| BSZ058N03MS G | SP000311508 | BSZ058N03MSGATMA1 | PG-TSDSON-8 | x | |
| BSZ067N06LS3 G | SP000451080 | BSZ067N06LS3GATMA1 | PG-TSDSON-8 | x | |
| BSZ076N06NS3 G | SP000454420 | BSZ076N06NS3GATMA1 | PG-TSDSON-8 | x | |
| BSZ086P03NS3 G | SP000473024 | BSZ086P03NS3GATMA1 | PG-TSDSON-8 | x | |
| BSZ086P03NS3E G | SP000473016 | BSZ086P03NS3EGATMA1 | PG-TSDSON-8 | x | |
| BSZ088N03LS G | SP000304138 | BSZ088N03LSGATMA1 | PG-TSDSON-8 | x | |
| BSZ088N03MS G | SP000311509 | BSZ088N03MSGATMA1 | PG-TSDSON-8 | x | |
| BSZ0909NS | SP000832568 | BSZ0909NSATMA1 | PG-TSDSON-8 | x | |
| BSZ097N04LS G | SP000388296 | BSZ097N04LSGATMA1 | PG-TSDSON-8 | x | |
| BSZ100N03LS G | SP000304135 | BSZ100N03LSGATMA1 | PG-TSDSON-8 | x | |
| BSZ100N03MS G | SP000311510 | BSZ100N03MSGATMA1 | PG-TSDSON-8 | x | |
| BSZ100N06LS3 G | SP000453672 | BSZ100N06LS3GATMA1 | PG-TSDSON-8 | x | |
| BSZ105N04NS G | SP000388301 | BSZ105N04NSGATMA1 | PG-TSDSON-8 | x | |
| BSZ110N06NS3 G | SP000453676 | BSZ110N06NS3GATMA1 | PG-TSDSON-8 | x | |
| BSZ110N06NS3 G | SP000453676 | BSZ110N06NS3GATMA1 | PG-TSDSON-8 | x | |
| BSZ120P03NS3 G | SP000709736 | BSZ120P03NS3GATMA1 | PG-TSDSON-8 | x | |
| BSZ120P03NS3E G | SP000709730 | BSZ120P03NS3EGATMA1 | PG-TSDSON-8 | x | |
| BSZ123N08NS3 G | SP000443632 | BSZ123N08NS3GATMA1 | PG-TSDSON-8 | x | |
| BSZ130N03LS G | SP000278810 | BSZ130N03LSGATMA1 | PG-TSDSON-8 | x | |
| BSZ130N03MS G | SP000313122 | BSZ130N03MSGATMA1 | PG-TSDSON-8 | x | |
| BSZ130N03MS G | SP000313122 | BSZ130N03MSGATMA1 | PG-TSDSON-8 | x | |
| BSZ150N10LS3 G | SP001002916 | BSZ150N10LS3GATMA1 | PG-TSDSON-8 | x | |
| BSZ160N10NS3 G | SP000482390 | BSZ160N10NS3GATMA1 | PG-TSDSON-8 | x | |
| BSZ165N04NS G | SP000391523 | BSZ165N04NSGATMA1 | PG-TSDSON-8 | x | |
| BSZ180P03NS3 G | SP000709744 | BSZ180P03NS3GATMA1 | PG-TSDSON-8 | x | |
| BSZ180P03NS3E G | SP000709740 | BSZ180P03NS3EGATMA1 | PG-TSDSON-8 | x | |
| BSZ240N12NS3 G | SP000819814 | BSZ240N12NS3GATMA1 | PG-TSDSON-8 | x | |
| BSZ340N08NS3 G | SP000443634 | BSZ340N08NS3GATMA1 | PG-TSDSON-8 | x | |
| BSZ340N08NS3 G | SP001171262 | BSZ340N08NS3GATMA2 | PG-TSDSON-8 | x | |
| BSZ440N10NS3 G | SP000482442 | BSZ440N10NS3GATMA1 | PG-TSDSON-8 | x | |
| BSZ520N15NS3 G | SP000607022 | BSZ520N15NS3GATMA1 | PG-TSDSON-8 | x | x |
| BSZ900N15NS3 G | SP000677866 | BSZ900N15NS3GATMA1 | PG-TSDSON-8 | x | x |
| IPA075N15N3 G | SP000607018 | IPA075N15N3GKSA1 | PG-TO220-3 | x | |
| IPA105N15N3 G | SP000677850 | IPA105N15N3GKSA1 | PG-TO220-3 | x | |
| IPA105N15N3 G | SP000677850 | IPA105N15N3GKSA1 | PG-TO220-3 | x | |
| IPB065N15N3 G | SP000521724 | IPB065N15N3GATMA1 | PG-TO263-3 | x | |
| IPB072N15N3 G | SP000386664 | IPB072N15N3GATMA1 | PG-TO263-3 | x | |
| IPB072N15N3 G E8187 | SP000938816 | IPB072N15N3GE8187ATMA1 | PG-TO263-3 | x | |
| IPB108N15N3 G | SP000677862 | IPB108N15N3GATMA1 | PG-TO263-3 | x | |
| IPB200N15N3 G | SP000414740 | IPB200N15N3GATMA1 | PG-TO263-3 | x | |
| IPB530N15N3 G | SP000521718 | IPB530N15N3GATMA1 | PG-TO263-3 | x | |

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|---------------|-------------|-------------------|------------|---|
| IPD200N15N3 G | SP000386665 | IPD200N15N3GBTMA1 | PG-TO252-3 | x |
| IPD200N15N3 G | SP001127820 | IPD200N15N3GATMA1 | PG-TO252-3 | x |
| IPD530N15N3 G | SP000521720 | IPD530N15N3GBTMA1 | PG-TO252-3 | x |
| IPI075N15N3 G | SP000680676 | IPI075N15N3GXKSA1 | PG-TO262-3 | x |
| IPI111N15N3 G | SP000680232 | IPI111N15N3GAKSA1 | PG-TO262-3 | x |
| IPP075N15N3 G | SP000680832 | IPP075N15N3GXKSA1 | PG-TO220-3 | x |
| IPP075N15N3 G | SP000680832 | IPP075N15N3GXKSA1 | PG-TO220-3 | x |
| IPP111N15N3 G | SP000677860 | IPP111N15N3GXKSA1 | PG-TO220-3 | x |
| IPP200N15N3 G | SP000680884 | IPP200N15N3GXKSA1 | PG-TO220-3 | x |
| IPP530N15N3 G | SP000521722 | IPP530N15N3GXKSA1 | PG-TO220-3 | x |

