



Initial Product/Process Change Notification

Document #: IPCN24061X

Issue Date: 24 Jun 2021

| | |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title of Change: | Cu Wire Conversion from 1mil Au to 1mil PCC for ONC25 and Combo (ONC25+VHVIC) devices |
| Proposed First Ship date: | 11 Dec 2021 or earlier if approved by customer |
| Contact Information: | Contact your local ON Semiconductor Sales Office or Scott.Brow@onsemi.com |
| PCN Samples Contact: | Contact your local ON Semiconductor Sales Office or < PCN.samples@onsemi.com >. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements. |
| Type of Notification: | This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact < PCN.Support@onsemi.com > |
| Marking of Parts/ Traceability of Change: | Product marked with date code 2150 or later may be built with Cu wire. |
| Change Category: | Assembly Change |
| Change Sub-Category(s): | Material Change |

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|---------------------------------------|--------------------------------------|
| Sites Affected: | |
| ON Semiconductor Sites | External Foundry/Subcon Sites |
| ON Semiconductor Carmona, Philippines | None |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|
| Description and Purpose: | | |
| ON Semiconductor would like to notify its customers of our intent to qualify the products listed in this IPCN from 1.0mil Au Wire to 1.0mil Pd Coated Cu (PCC). There will be no other changes to the BOM associated with this qualification. | | |
| | Before Change Description | After Change Description |
| Bond Wire | 1.0mil Au | 1.0mil PCC (Pd Coated Cu) |
| There is no product marking change as a result of this change. | | |

**Qualification Plan:**

QV DEVICE NAME NCP51530BDR2G_NCL30086BHDR2G

RMS : TBD

PACKAGE : SOIC 8

| Test | Specification | Condition | Interval |
|-------|---------------------|-----------------------------------|----------|
| HTSL | JESD22-A103 | Ta= 150°C | 1008 hrs |
| TC | JESD22-A104 | Ta= -65°C to +150°C | 500 cyc |
| HAST | JESD22-A110 | 110°C, 85% RH, 18.8psig, bias | 528 hrs |
| uHAST | JESD22-A118 | 130°C, 85% RH, 18.8psig, unbiased | 96 hrs |
| PC | J-STD-020 JESD-A113 | MSL 1 @ 260 °C | |

QV DEVICE NAME : NCP1399ACDR2G

RMS : Q77414 / Q77602PACKAGE: SOIC 16

| Test | Specification | Condition | Interval |
|-------|---------------------|-----------------------------------|----------|
| HTSL | JESD22-A103 | Ta= 150°C | 1008 hrs |
| TC | JESD22-A104 | Ta= -65°C to +150°C | 500 cyc |
| HAST | JESD22-A110 | 130°C, 85% RH, 18.8psig, bias | 192 hrs |
| uHAST | JESD22-A118 | 130°C, 85% RH, 18.8psig, unbiased | 96 hrs |
| PC | J-STD-020 JESD-A113 | MSL 3 @ 260 °C | |

Estimated date for qualification completion: 27 August 2021

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

| Part Number | Qualification Vehicle |
|--------------------|------------------------------|
| NCL30186BDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP1370BDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP4305ADR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL2801CFADR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30186DDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30082BDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30082DDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30088BDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30188BDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP12400BBBBA0DR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP12400BBHAA1DR2G | NCP51530BDR2G/NCL30086BHDR2G |



| | |
|--------------------|------------------------------|
| NCP12400CBAAB0DR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP12400EAHBB0DR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP12400CAHAB0DR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP12400CBHAA0DR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP1611ADR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP1611BDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP4305DDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP4308DDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP4305QDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP4306AADZZZADR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP4355CDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP43080ADR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP4308DDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP51530ADR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP51530BDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP1399AGDR2G | NCP1399ACDR2G |
| NCP1341B1DR2G | NCP1399ACDR2G |
| NCP13992AADR2G | NCP1399ACDR2G |
| NCP13992AEDR2G | NCP1399ACDR2G |
| NCP13992ACDR2G | NCP1399ACDR2G |
| NCP13992ABDR2G | NCP1399ACDR2G |
| NCP13992ADDR2G | NCP1399ACDR2G |
| NCP13992AGDR2G | NCP1399ACDR2G |
| NCP13992AHDR2G | NCP1399ACDR2G |
| NCP13992AMDR2G | NCP1399ACDR2G |
| NCP1399ASDR2G | NCP1399ACDR2G |
| NCP1399ATDR2G | NCP1399ACDR2G |
| NCP1399BADR2G | NCP1399ACDR2G |
| NCP1399AMDR2G | NCP1399ACDR2G |
| NCP1239DD65R2G | NCP1399ACDR2G |
| NCP1239AD65R2G | NCP1399ACDR2G |
| NCP1239DD100R2G | NCP1399ACDR2G |
| NCP1239ED100R2G | NCP1399ACDR2G |
| NCP1239BD100R2G | NCP1399ACDR2G |



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|------------------|------------------------------|
| NCP1239BD65R2G | NCP1399ACDR2G |
| NCP1239AD100R2G | NCP1399ACDR2G |
| NCP1239HD65R2G | NCP1399ACDR2G |
| NCP1239CD65R2G | NCP1399ACDR2G |
| NCP1340B10DR2G | NCP1399ACDR2G |
| NCP1340A6DR2G | NCP1399ACDR2G |
| NCP1340B6DR2G | NCP1399ACDR2G |
| NCP1365AABCYDR2G | NCP1399ACDR2G |
| NCP1365ACBAXDR2G | NCP1399ACDR2G |
| NCP1366AABAYDR2G | NCP1399ACDR2G |
| NCP13992AFDR2G | NCP1399ACDR2G |
| NCP1399AFDR2G | NCP1399ACDR2G |
| NCP1399ARDR2G | NCP1399ACDR2G |
| NCP1399APDR2G | NCP1399ACDR2G |
| NCP13992AJDR2G | NCP1399ACDR2G |
| NCP1615C5DR2G | NCP1399ACDR2G |
| NCP1399AADR2G | NCP1399ACDR2G |
| NCP1399ANDR2G | NCP1399ACDR2G |
| NCP1399AIDR2G | NCP1399ACDR2G |
| NCP1399AHDR2G | NCP1399ACDR2G |
| NCL2801CDADR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL2801CDBDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30082B1DR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30086BDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30086BHDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30060B3DR2G | NCP1399ACDR2G |
| NCP1340B1DR2G | NCP1399ACDR2G |
| NCP1615C4DR2G | NCP1399ACDR2G |
| NCL30060B2DR2G | NCP1399ACDR2G |
| NCL30060B4DR2G | NCP1399ACDR2G |
| NCL30060BDR2G | NCP1399ACDR2G |
| NCP1239LD65R2G | NCP1399ACDR2G |
| NCP1239GD100R2G | NCP1399ACDR2G |
| NCP1239KD65R2G | NCP1399ACDR2G |



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| NCP1239RD65R2G | NCP1399ACDR2G |
| NCP1239ED65R2G | NCP1399ACDR2G |
| NCP1239FD65R2G | NCP1399ACDR2G |
| NCP1239ID65R2G | NCP1399ACDR2G |

Japanese translation of the notification starts here.
通知の日本語訳はここから始まります。

Note: The Japanese version is for reference only. In case of any differences between the English and Japanese version, the English version shall control.

注：日本語版は参照用です。英語版と日本語版の違いがある場合は、英語版が優先されます。



初回製品 / プロセス変更通知

文書番号# : IPCN24061X

発行日: 24 Jun 2021

| | | |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| 変更件名: | ONC25 および Combo (ONC25+VHVIC) デバイス用の Cu ワイヤを 1mil Au から 1mil PCC に変更。 | |
| 初回出荷予定日: | 2021 年 12 月 11 日またはお客様からの承認が得られた場合はそれ以前 | |
| 連絡先情報: | 現地のオン・セミコンダクター営業所または < Scott.Brow@onsemi.com > にお問い合わせください。 | |
| サンプル: | 現地のオン・セミコンダクター営業所または < PCN.Samples@onsemi.com > にお問い合わせください。 サンプルは、イニシアル PCN またはファイナル PCN の初回通知の日付から 30 日以内に要求してください。 サンプル納入時は、依頼日、数量、特別梱包材/ラベル条件によって異なります。 | |
| 通知種別: | これは、お客様宛のイニシアル製品/プロセス変更通知 (IPCN) です。IPCN は、近日中に実施される変更に関する事前通知であり、変更の詳細および影響を受けるデバイスについての一般情報が記載されます。また、暫定的な信頼性認証計画も記載されています。 最終的な認定データおよび特性データはファイナル製品/プロセス変更通知 (FPCN) に含まれます。この IPCN は、変更実施から少なくとも 90 日前に発行されるファイナル製品/プロセス変更通知 (FPCN) に先だって通知されません。ご不明な点がありましたら、< PCN.Support@onsemi.com > にお問い合わせください。 | |
| 部品のマーキング/変更のトレーサビリティ: | デートコードが 2150 以降で表記された製品は、Cu ワイヤで製造される可能性があります。 | |
| 変更カテゴリ: | 組立の変更 | |
| 変更サブカテゴリ: | 材料の変更 | |
| 影響を受ける拠点: | | |
| 外部製造工場 / 下請業者拠点: | 外部製造工場 / 下請業者拠点: | |
| ON Semiconductor Carmona, Philippines | | なし |
| 説明および目的: オン・セミコンダクターは、本 IPCN に記載されている製品を、1.0mil Au ワイヤから 1.0mil Pd 被覆 Cu (PCC) に変更して認定する意向をお客様にお知らせします。今回の認定によるこれ以外の BOM への変更はありません。 | | |
| | 変更前の表記 | 変更後の表記 |
| ボンドワイヤー | 1.0mil Au | 1.0mil PCC (Pd Coated Cu) |
| 今回の変更に伴う製品表示の変更はありません。 | | |



初回製品 / プロセス変更通知

文書番号# : IPCN24061X

発行日: 24 Jun 2021

認定計画:

デバイス名 : NCP51530BDR2G NCL30086BHDR2G

RMS : TBD

パッケージ : SOIC 8

| テスト | 規格 | 条件 | 間隔 |
|-------|---------------------|------------------------------------|------------|
| HTSL | JESD22-A103 | Ta= 150°C | 1008 hours |
| TC | JESD22-A104 | Ta= -65°C to +150°C | 500 cyc |
| HAST | JESD22-A110 | 110°C, 85% RH, 18.8psig, bias | 528 hrs |
| uHAST | JESD22-A118 | 130°C, 85% RH, 18.8 psig, unbiased | 96 hours |
| PC | J-STD-020 JESD-A113 | MSL 1 @ 260 °C | |

デバイス名 : NCP1399ACDR2GRMS : O77414/O77602パッケージ : SOIC 16

| テスト | 規格 | 条件 | 間隔 |
|-------|---------------------|------------------------------------|------------|
| HTSL | JESD22-A103 | Ta= 150°C | 1008 hours |
| TC | JESD22-A104 | Ta= -65°C to +150°C | 500 cyc |
| HAST | JESD22-A110 | 130°C, 85% RH, 18.8psig, bias | 192 hrs |
| uHAST | JESD22-A118 | 130°C, 85% RH, 18.8 psig, unbiased | 96 hours |
| PC | J-STD-020 JESD-A113 | MSL 3 @ 260 °C | |

認定完了予定日 : 27 August 2021

影響を受ける部品の一覧:

注: 部品一覧には標準部品番号 (既製品) のみが記載されています。本 PCN の影響を受けるカスタム部品番号は、PCN メールで提供される顧客個別の付録、または PCN カスタマイズポータルに記載されています。

| 部品番号 | 認定試験用ピークル |
|--------------------|------------------------------|
| NCL30186BDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP1370BDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP4305ADR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL2801CFADR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30186DDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30082BDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30082DDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30088BDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30188BDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP12400BBBBA0DR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP12400BBHAA1DR2G | NCP51530BDR2G/NCL30086BHDR2G |



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| | |
|--------------------|------------------------------|
| NCP12400CBAAB0DR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP12400EAHBB0DR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP12400CAHAB0DR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP12400CBHAA0DR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP1611ADR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP1611BDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP4305DDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP4308DDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP4305QDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP4306AADZZADR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP4355CDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP43080ADR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP4308DDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP51530ADR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP51530BDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCP1399AGDR2G | NCP1399ACDR2G |
| NCP1341B1DR2G | NCP1399ACDR2G |
| NCP13992AADR2G | NCP1399ACDR2G |
| NCP13992AEDR2G | NCP1399ACDR2G |
| NCP13992ACDR2G | NCP1399ACDR2G |
| NCP13992ABDR2G | NCP1399ACDR2G |
| NCP13992ADDR2G | NCP1399ACDR2G |
| NCP13992AGDR2G | NCP1399ACDR2G |
| NCP13992AHDR2G | NCP1399ACDR2G |
| NCP13992AMDR2G | NCP1399ACDR2G |
| NCP1399ASDR2G | NCP1399ACDR2G |
| NCP1399ATDR2G | NCP1399ACDR2G |
| NCP1399BADR2G | NCP1399ACDR2G |
| NCP1399AMDR2G | NCP1399ACDR2G |
| NCP1239DD65R2G | NCP1399ACDR2G |
| NCP1239AD65R2G | NCP1399ACDR2G |
| NCP1239DD100R2G | NCP1399ACDR2G |
| NCP1239ED100R2G | NCP1399ACDR2G |
| NCP1239BD100R2G | NCP1399ACDR2G |



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| NCP1239BD65R2G | NCP1399ACDR2G |
| NCP1239AD100R2G | NCP1399ACDR2G |
| NCP1239HD65R2G | NCP1399ACDR2G |
| NCP1239CD65R2G | NCP1399ACDR2G |
| NCP1340B10DR2G | NCP1399ACDR2G |
| NCP1340A6DR2G | NCP1399ACDR2G |
| NCP1340B6DR2G | NCP1399ACDR2G |
| NCP1365AABCYDR2G | NCP1399ACDR2G |
| NCP1365ACBAXDR2G | NCP1399ACDR2G |
| NCP1366AABAYDR2G | NCP1399ACDR2G |
| NCP13992AFDR2G | NCP1399ACDR2G |
| NCP1399AFDR2G | NCP1399ACDR2G |
| NCP1399ARDR2G | NCP1399ACDR2G |
| NCP1399APDR2G | NCP1399ACDR2G |
| NCP13992AJDR2G | NCP1399ACDR2G |
| NCP1615C5DR2G | NCP1399ACDR2G |
| NCP1399AADR2G | NCP1399ACDR2G |
| NCP1399ANDR2G | NCP1399ACDR2G |
| NCP1399AIDR2G | NCP1399ACDR2G |
| NCP1399AHDR2G | NCP1399ACDR2G |
| NCL2801CDADR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL2801CDBDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30082B1DR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30086BDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30086BHDR2G | NCP51530BDR2G/NCL30086BHDR2G |
| NCL30060B3DR2G | NCP1399ACDR2G |
| NCP1340B1DR2G | NCP1399ACDR2G |
| NCP1615C4DR2G | NCP1399ACDR2G |
| NCL30060B2DR2G | NCP1399ACDR2G |
| NCL30060B4DR2G | NCP1399ACDR2G |
| NCL30060BDR2G | NCP1399ACDR2G |
| NCP1239LD65R2G | NCP1399ACDR2G |
| NCP1239GD100R2G | NCP1399ACDR2G |
| NCP1239KD65R2G | NCP1399ACDR2G |



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| NCP1239RD65R2G | NCP1399ACDR2G |
| NCP1239ED65R2G | NCP1399ACDR2G |
| NCP1239FD65R2G | NCP1399ACDR2G |
| NCP1239ID65R2G | NCP1399ACDR2G |



Appendix A: Changed Products

PCN#: IPCN24061X
Issue Date: Jun 24, 2021

| Product | Customer Part Number | Qualification Vehicle | New Part Number | Replacement Supplier |
|--------------------|----------------------|------------------------------|-----------------|----------------------|
| NCL30186BDR2G | | NCP51530BDR2G/NCL30086BHDR2G | | |
| NCP4305ADR2G | | NCP51530BDR2G/NCL30086BHDR2G | | |
| NCL2801CFADR2G | | NCP51530BDR2G/NCL30086BHDR2G | | |
| NCL30088BDR2G | | NCP51530BDR2G/NCL30086BHDR2G | | |
| NCL30188BDR2G | | NCP51530BDR2G/NCL30086BHDR2G | | |
| NCP12400CBAAB0DR2G | | NCP51530BDR2G/NCL30086BHDR2G | | |
| NCP1611ADR2G | | NCP51530BDR2G/NCL30086BHDR2G | | |
| NCP1611BDR2G | | NCP51530BDR2G/NCL30086BHDR2G | | |
| NCP4305DDR2G | | NCP51530BDR2G/NCL30086BHDR2G | | |
| NCP43080DDR2G | | NCP51530BDR2G/NCL30086BHDR2G | | |
| NCP4306AADZZADR2G | | NCP51530BDR2G/NCL30086BHDR2G | | |
| NCP43080ADR2G | | NCP51530BDR2G/NCL30086BHDR2G | | |
| NCP4308DDR2G | | NCP51530BDR2G/NCL30086BHDR2G | | |
| NCP51530ADR2G | | NCP51530BDR2G/NCL30086BHDR2G | | |
| NCP51530BDR2G | | NCP51530BDR2G/NCL30086BHDR2G | | |
| NCP13992AADR2G | | NCP1399ACDR2G | | |
| NCP13992ACDR2G | | NCP1399ACDR2G | | |
| NCP13992ABDR2G | | NCP1399ACDR2G | | |
| NCP1399AMDR2G | | NCP1399ACDR2G | | |
| NCP1239BD100R2G | | NCP1399ACDR2G | | |
| NCP1239BD65R2G | | NCP1399ACDR2G | | |
| NCP1399APDR2G | | NCP1399ACDR2G | | |
| NCP1399AADR2G | | NCP1399ACDR2G | | |
| NCP1399AIDR2G | | NCP1399ACDR2G | | |
| NCL2801CDADR2G | | NCP51530BDR2G/NCL30086BHDR2G | | |
| NCL2801CDBDR2G | | NCP51530BDR2G/NCL30086BHDR2G | | |
| NCL30060B3DR2G | | NCP1399ACDR2G | | |
| NCP1340B1DR2G | | NCP1399ACDR2G | | |
| NCL30060B2DR2G | | NCP1399ACDR2G | | |
| NCP1239KD65R2G | | NCP1399ACDR2G | | |
| NCP1239ED65R2G | | NCP1399ACDR2G | | |