

Product Change Notice (PCN)

Subject: Change Shipping Media on Select Package

Publication Date: 12/8/2020

Effective Date: 3/8/2021

Revision Description:

Initial Release

Description of Change:

Renesas is converting shipping media from Tube to Tray on package QFN 3mm x 3mm and QFN 4mm x 4mm. The current shipping media in Reel remains unchanged. Industrial standard JEDEC shipping trays will be introduced. Refer Appendix B for tray drawings.

Affected Packages	Shipping Tray Supplier	Shipping Tray Part#
QFN 3mm x 3mm (NLG16, NDG20)	ePAK	eN QFN0303 1.2 1639 13
QFN 4mm x 4mm (NLG20, NLG24, NDG28)	ePAK	eN QFN0404 1.1 1435 13

The MOQ and FOI in Tray shipment shall change as listed in Appendix A.

Affected Product List: Refer Appendix A.

Reason for Change:

To align the shipping media throughout the entire manufacturing process from Assembly to Shipping.

Impact on Fit, Form, Function, Quality & Reliability:

The change will have no impact on the product form, fit, function, quality, reliability and environmental compliance of the products.

Product Identification:

Shipment starting March 8, 2021 onwards.

Qualification Status: Internal qualification completed successfully, available on request

Sample Availability Date: Not applicable

Material Declaration: Available on request

Note:

- Acknowledgement must be received by Renesas within 30 days or Renesas will consider the change as approved.
- If timely acknowledgement is provided by Customer, then Customer shall have 90 days from the date of receipt of this PCN to make any objections to this PCN. If Customer fails to make objections to this PCN within 90 days of the receipt of the PCN then Renesas will consider the PCN changes as approved.
- If customer cannot accept the PCN then customer must provide Renesas with a last time buy demand and purchase order.

For additional information regarding this notice, please contact idt-pcn@lm.renesas.com

Appendix A – Affected Product List & MOQ/FOI Comparizon

Package Family	Package	Orderable part#	Current (Tube)		New (Tray)	
			MOQ	FOI	MOQ	FOI
QFN 3mm x 3mm	NDG20	49FCT3805SNDGI	100	100	624	624
QFN 3mm x 3mm	NDG20	49FCT805SNDGI	100	100	624	624
QFN 3mm x 3mm	NDG20	5P49EE502NDGI	500	100	624	624
QFN 3mm x 3mm	NDG20	5P49EE502-013NDGI	400	100	624	624
QFN 3mm x 3mm	NDG20	5P49EE502-015NDGI	400	100	624	624
QFN 3mm x 3mm	NDG20	5P49EE502-016NDGI	100	100	624	624
QFN 3mm x 3mm	NDG20	5P49EE502-021NDGI	100	100	624	624
QFN 3mm x 3mm	NDG20	5P49EE502-128NDG	600	100	624	624
QFN 3mm x 3mm	NDG20	5P49EE502-128NDGI	600	100	624	624
QFN 3mm x 3mm	NDG20	5P49EE502-130NDGI	400	100	624	624
QFN 3mm x 3mm	NDG20	5P49EE502-132NDG	200	100	624	624
QFN 3mm x 3mm	NDG20	5P49EE502-136NDG	200	100	624	624
QFN 3mm x 3mm	NDG20	5P49EE502-150NDGI	500	100	624	624
QFN 3mm x 3mm	NDG20	5P49EE502-160NDGI	200	100	624	624
QFN 3mm x 3mm	NDG20	5P49EE502A130NDGI	200	100	624	624
QFN 3mm x 3mm	NDG20	5T49M3504NDGI	100	100	624	624
QFN 3mm x 3mm	NDG20	6P49R502-132NDG	200	100	624	624
QFN 3mm x 3mm	NDG20	6P49R502-136NDG	200	100	624	624
QFN 3mm x 3mm	NDG20	LV810SNDGK	100	100	624	624
QFN 3mm x 3mm	NLG16	552-02SNLGI	100	100	624	624
QFN 3mm x 3mm	NLG16	5P30104NLGI	100	100	624	624
QFN 3mm x 3mm	NLG16	5P30114NLGI	300	100	624	624
QFN 3mm x 3mm	NLG16	5P37104NLGI	100	100	624	624
QFN 3mm x 3mm	NLG16	5P39104NLGI	100	100	624	624
QFN 3mm x 3mm	NLG16	5T49M3503NLGI	100	100	624	624
QFN 3mm x 3mm	NLG16	5V41064NLG	200	100	624	624
QFN 3mm x 3mm	NLG16	5V41064NLGI	200	100	624	624
QFN 3mm x 3mm	NLG16	5V41065NLG	300	100	624	624
QFN 3mm x 3mm	NLG16	5V41065NLGI	200	100	624	624
QFN 3mm x 3mm	NLG16	5V41185NLG	300	100	624	624
QFN 3mm x 3mm	NLG16	5V41185NLGI	300	100	624	624
QFN 3mm x 3mm	NLG16	5V41234NLG	300	100	624	624
QFN 3mm x 3mm	NLG16	5V41234NLGI	300	100	624	624
QFN 3mm x 3mm	NLG16	5V41235NLG	300	100	624	624
QFN 3mm x 3mm	NLG16	5V41235NLGI	400	100	624	624
QFN 3mm x 3mm	NLG16	5V41285NLGI	200	100	624	624
QFN 3mm x 3mm	NLG16	5V41315NLGI	200	100	624	624
QFN 3mm x 3mm	NLG16	5V41355NLG	200	100	624	624
QFN 3mm x 3mm	NLG16	5V41355NLGI	200	100	624	624
QFN 3mm x 3mm	NLG16	6V41295NLG	200	100	624	624
QFN 3mm x 3mm	NLG16	6V41295NLGI	200	100	624	624
QFN 3mm x 3mm	NLG16	6V41545NLG	500	100	624	624
QFN 3mm x 3mm	NLG16	851S201CKILF	100	100	624	624
QFN 3mm x 3mm	NLG16	853S01AKILF	100	100	624	624
QFN 3mm x 3mm	NLG16	853S54AKI-01LF	100	100	624	624

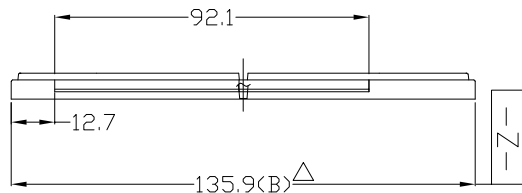
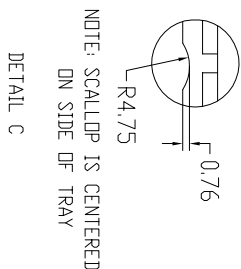
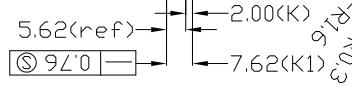
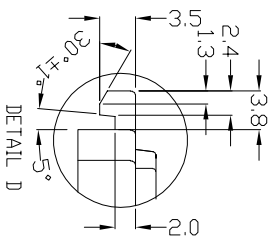
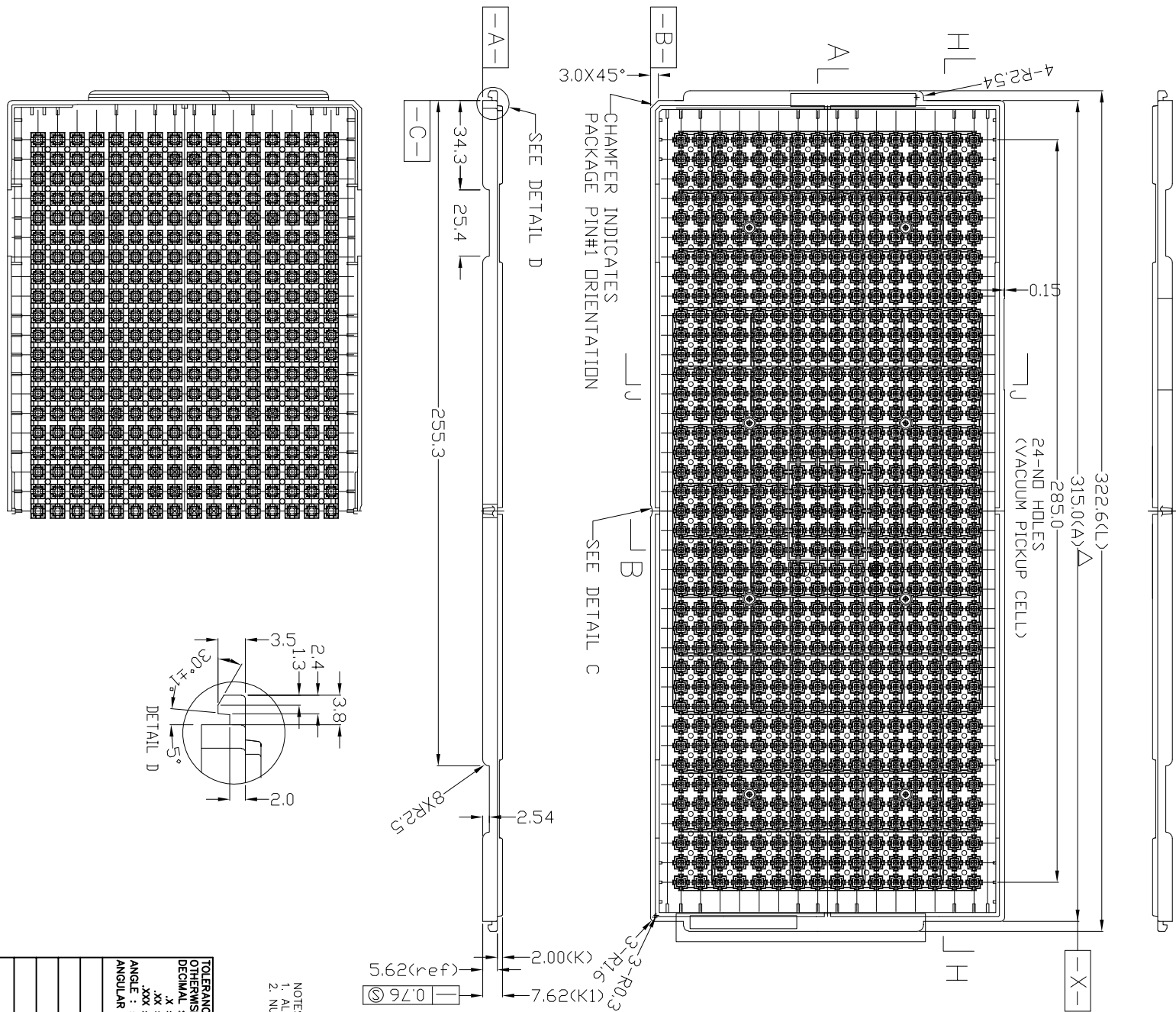
Package Family	Package	Orderable part#	Current (Tube)		New (Tray)	
			MOQ	FOI	MOQ	FOI
QFN 3mm x 3mm	NLG16	853S9252BKILF	100	100	624	624
QFN 3mm x 3mm	NLG16	854S01AKILF	100	100	624	624
QFN 3mm x 3mm	NLG16	854S54AKI-01LF	100	100	624	624
QFN 3mm x 3mm	NLG16	854S712AKILF	100	100	624	624
QFN 3mm x 3mm	NLG16	858S011AKILF	100	100	624	624
QFN 3mm x 3mm	NLG16	8P34S1102NLGI	100	100	624	624
QFN 3mm x 3mm	NLG16	8P34S1204NLGI	100	100	624	624
QFN 3mm x 3mm	NLG16	8S58021AKILF	100	100	624	624
QFN 3mm x 3mm	NLG16	8S58021AKILF-09	100	100	624	624
QFN 3mm x 3mm	NLG16	8S89831AKILF	100	100	624	624
QFN 3mm x 3mm	NLG16	8S89832AKILF	100	100	624	624
QFN 3mm x 3mm	NLG16	8S89833AKILF	100	100	624	624
QFN 3mm x 3mm	NLG16	8S89874BKILF	200	100	624	624
QFN 3mm x 3mm	NLG16	8S89876BKILF	200	100	624	624
QFN 3mm x 3mm	NLG16	8SLVD1204NLGI	200	100	624	624
QFN 3mm x 3mm	NLG16	8SLVD1204-33NLGI	200	100	624	624
QFN 3mm x 3mm	NLG16	8SLVD2102NLGI	200	100	624	624
QFN 3mm x 3mm	NLG16	8SLVP1102ANLGI	200	100	624	624
QFN 3mm x 3mm	NLG16	8SLVP1104ANLGI	200	100	624	624
QFN 3mm x 3mm	NLG16	8SLVP1204ANLGI	200	100	624	624
QFN 3mm x 3mm	NLG16	8RP1204NLGI	200	100	624	624
QFN 3mm x 3mm	NLG16	8SLVP2102ANLGI	200	100	624	624
QFN 3mm x 3mm	NLG16	8T73S1802NLGI	100	100	624	624
QFN 3mm x 3mm	NLG16	9DMU0131AKILF	200	100	624	624
QFN 3mm x 3mm	NLG16	9DMU0141AKILF	200	100	624	624
QFN 3mm x 3mm	NLG16	9DMV0131AKILF	200	100	624	624
QFN 3mm x 3mm	NLG16	9DMV0131BKILF	100	100	624	624
QFN 3mm x 3mm	NLG16	9DMV0141AKILF	200	100	624	624
QFN 3mm x 3mm	NLG16	9DMV0141BKILF	100	100	624	624
QFN 4mm x 4mm	NDG28	5P49EE802NDGI	375	75	490	490
QFN 4mm x 4mm	NDG28	5V49EE701NDGI	75	75	490	490
QFN 4mm x 4mm	NDG28	5V49EE701-145NDGI	150	75	490	490
QFN 4mm x 4mm	NDG28	5V49EE702NDGI	150	75	490	490
QFN 4mm x 4mm	NDG28	5V49EE702-097NDGI	150	75	490	490
QFN 4mm x 4mm	NDG28	5V49EE702-119NDGI	75	75	490	490
QFN 4mm x 4mm	NDG28	5V49EE702-198NDGI	150	75	490	490
QFN 4mm x 4mm	NDG28	5V49EE703-030NDGI	225	75	490	490
QFN 4mm x 4mm	NDG28	5V49EE703-038NDGI	150	75	490	490
QFN 4mm x 4mm	NDG28	5V49EE703-082NDGI	150	75	490	490
QFN 4mm x 4mm	NDG28	5V49EE703-083NDGI	150	75	490	490
QFN 4mm x 4mm	NDG28	5V49EE703-108NDGI	300	75	490	490
QFN 4mm x 4mm	NDG28	5V49EE703-109NDGI	300	75	490	490
QFN 4mm x 4mm	NDG28	5V49EE703-132NDGI	300	75	490	490
QFN 4mm x 4mm	NDG28	5V49EE703-134NDGI	300	75	490	490
QFN 4mm x 4mm	NDG28	5V49EE703-135NDGI	300	75	490	490
QFN 4mm x 4mm	NDG28	5V49EE704NDGI	150	75	490	490

Package Family	Package	Orderable part#	Current (Tube)		New (Tray)	
			MOQ	FOI	MOQ	FOI
QFN 4mm x 4mm	NDG28	5V49EE704-131NDGI	225	75	490	490
QFN 4mm x 4mm	NDG28	5V49EE704-170NDGI	150	75	490	490
QFN 4mm x 4mm	NLG20	49FCT20805NLGI	75	75	490	490
QFN 4mm x 4mm	NLG20	6V31021NLGI	225	75	490	490
QFN 4mm x 4mm	NLG20	6V31024NLG	300	75	490	490
QFN 4mm x 4mm	NLG20	6V31054NLGI	150	75	490	490
QFN 4mm x 4mm	NLG20	6V41130NLG	300	75	490	490
QFN 4mm x 4mm	NLG20	83905AKLF	225	75	490	490
QFN 4mm x 4mm	NLG20	8P34S1106NLGI	75	75	490	490
QFN 4mm x 4mm	NLG20	8V33004-001NLGI	75	75	490	490
QFN 4mm x 4mm	NLG20	8V74S4622NLGI	75	75	490	490
QFN 4mm x 4mm	NLG20	9DBL411AKLF	300	75	490	490
QFN 4mm x 4mm	NLG20	9DBL411AKLF-INT	600	75	490	490
QFN 4mm x 4mm	NLG20	9DBL411BKLF	300	75	490	490
QFN 4mm x 4mm	NLG20	9DBL411BKLF-INT	300	75	490	490
QFN 4mm x 4mm	NLG20	9DBL411BKILF	225	75	490	490
QFN 4mm x 4mm	NLG20	9SBV0802AKILF	225	75	490	490
QFN 4mm x 4mm	NLG24	5P49EE602NLGI	375	75	490	490
QFN 4mm x 4mm	NLG24	5V19EE403NLGI	150	75	490	490
QFN 4mm x 4mm	NLG24	5V19EE403-003NLGI	300	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE501NLGI	150	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE501-063NLGI	150	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE501-094NLGI	150	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE501-095NLGI	150	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE501-098NLGI	150	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE501-117NLGI	75	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE501-118NLGI	75	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE501-125NLGI	75	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE501-126NLGI	75	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE501-127NLGI	150	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE502NLGI	75	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE502-129NLGI	300	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-027NLGI	150	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-046NLGI	300	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-055NLGI	150	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-068NLGI	150	75	490	490
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QFN 4mm x 4mm	NLG24	5V49EE503-085NLGI	150	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-099NLG	300	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-106NLGI	150	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-123NLGI	150	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-125NLGI	450	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-128NLG	600	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-128NLGI	525	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-139NLG	825	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-139NLGI	825	75	490	490

Package Family	Package	Orderable part#	Current (Tube)		New (Tray)	
			MOQ	FOI	MOQ	FOI
QFN 4mm x 4mm	NLG24	5V49EE503-147NLGI	300	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-149NLGI	150	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-166NLGI	150	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-187NLGI	300	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-205NLG	980	490	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-206NLG	980	490	490	490
QFN 4mm x 4mm	NLG24	5V49EE503-207NLG	980	490	490	490
QFN 4mm x 4mm	NLG24	5V49EE504NLGI	150	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE504-133NLGI	225	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE504-137NLGI	75	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE504-141NLGI	225	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE504-156NLGI	150	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE504-171NLGI	450	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE504-173NLGI	300	75	490	490
QFN 4mm x 4mm	NLG24	5V49EE504-175NLGI	150	75	490	490
QFN 4mm x 4mm	NLG24	6P41330NLGW3	75	75	490	490
QFN 4mm x 4mm	NLG24	6P41360NLG	490	490	490	490
QFN 4mm x 4mm	NLG24	6P41360NLGI	75	75	490	490
QFN 4mm x 4mm	NLG24	6P41361NLG	490	490	490	490
QFN 4mm x 4mm	NLG24	6U41362NLG	450	75	490	490
QFN 4mm x 4mm	NLG24	854S015CKI-01LF	75	75	490	490
QFN 4mm x 4mm	NLG24	889474AKLF	150	75	490	490
QFN 4mm x 4mm	NLG24	8L30205NLGI	300	75	490	490
QFN 4mm x 4mm	NLG24	9DBU0231AKLF	300	75	490	490
QFN 4mm x 4mm	NLG24	9DBU0231AKILF	225	75	490	490
QFN 4mm x 4mm	NLG24	9DBU0241AKLF	300	75	490	490
QFN 4mm x 4mm	NLG24	9DBU0241AKILF	225	75	490	490
QFN 4mm x 4mm	NLG24	9DBV0231AKLF	300	75	490	490
QFN 4mm x 4mm	NLG24	9DBV0231AKILF	300	75	490	490
QFN 4mm x 4mm	NLG24	9DBV0241AKLF	300	75	490	490
QFN 4mm x 4mm	NLG24	9DBV0241AKILF	300	75	490	490
QFN 4mm x 4mm	NLG24	9DMU0431AKILF	225	75	490	490
QFN 4mm x 4mm	NLG24	9DMU0441AKILF	225	75	490	490
QFN 4mm x 4mm	NLG24	9DMV0431AKILF	225	75	490	490
QFN 4mm x 4mm	NLG24	9DMV0431BKILF	75	75	490	490
QFN 4mm x 4mm	NLG24	9DMV0441AKILF	225	75	490	490
QFN 4mm x 4mm	NLG24	9DMV0441BKILF	75	75	490	490
QFN 4mm x 4mm	NLG24	9FGL02P1AKILF	75	75	490	490
QFN 4mm x 4mm	NLG24	9FGL02P1A000KILF	225	75	490	490
QFN 4mm x 4mm	NLG24	9FGU0231AKLF	300	75	490	490
QFN 4mm x 4mm	NLG24	9FGU0231AKILF	225	75	490	490
QFN 4mm x 4mm	NLG24	9FGU0241AKLF	300	75	490	490
QFN 4mm x 4mm	NLG24	9FGU0241AKILF	225	75	490	490
QFN 4mm x 4mm	NLG24	9FGV0231AKLF	300	75	490	490
QFN 4mm x 4mm	NLG24	9FGV0231AKILF	225	75	490	490
QFN 4mm x 4mm	NLG24	9FGV0241AKLF	300	75	490	490

Package Family	Package	Orderable part#	Current (Tube)		New (Tray)	
			MOQ	FOI	MOQ	FOI
QFN 4mm x 4mm	NLG24	9FGV0241AKILF	225	75	490	490
QFN 4mm x 4mm	NLG24	9Q49025AKLF	490	490	490	490
QFN 4mm x 4mm	NLG24	9Q49025AKILF	490	490	490	490
QFN 4mm x 4mm	NLG24	VPP2000NLG	75	75	490	490

Tray Drawing QFN 3mm x 3mm



TOLERANCES UNLESS OTHERWISE SPECIFIED
 DECIMAL :
 .XX ±.13
 .XXX ±
 ANGULAR : ±0.5°
 ANGULAR : ±

RENESAS

6024 Silver Creek Valley Road,
 San Jose, CA 95138
 PHONE: (408) 284-6200
 FAX: (408) 284-3572

TITLE:

NBG 10/12, NDG 20, NLG 16 & NTG
 16/20 SHIPPING TRAY

STOCK NO.

N/A

DRAWING NO.

MSC-8603-A

REV

00

SCALE

N/A

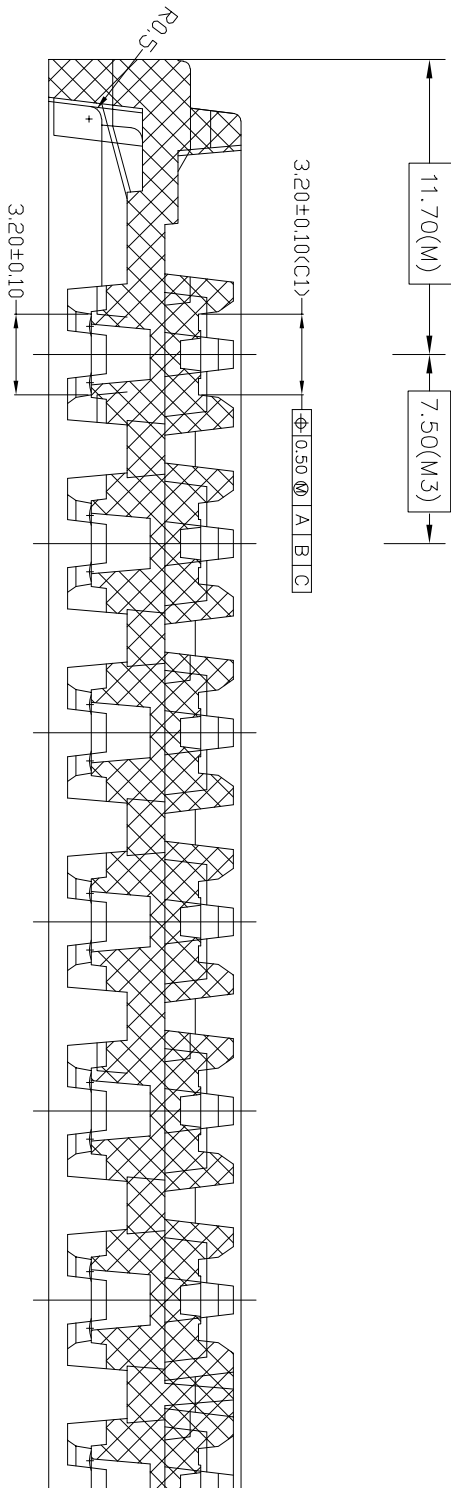
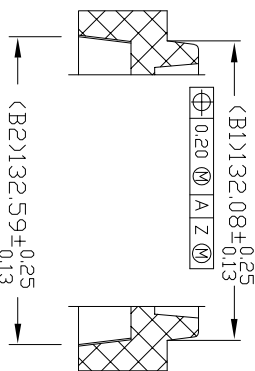
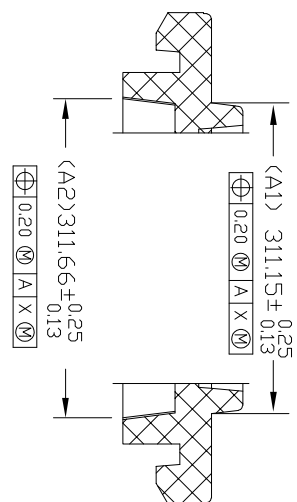
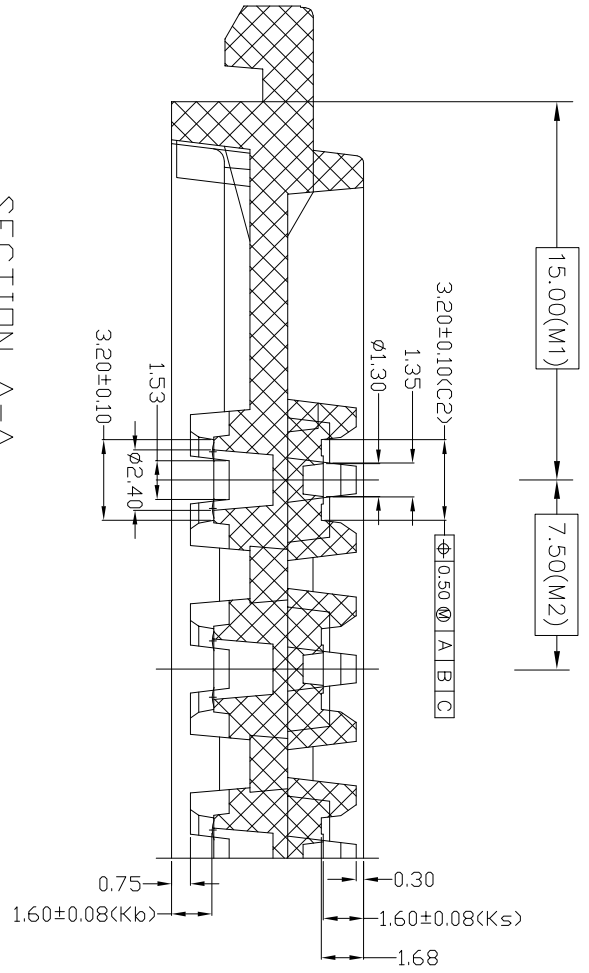
SIZE

N/A

DO NOT SCALE DRAWING

SHEET 1 OF 2

Tray Drawing QFN 3mm x 3mm



SECTION B-B

TOLERANCES UNLESS OTHERWISE SPECIFIED
 DECIMAL :
 .X $\pm .25$
 .XX $\pm .13$
 .XXX $\pm$
 ANGULAR : $\pm 0.5^\circ$

RENESAS

6024 Silver Creek Valley Road,
 San Jose, CA 95138
 PHONE: (408) 284-8200
 FAX: (408) 284-3572

TITLE:

NBG 10/12, NDG 20, NLG 16 & NTG
 16/20 SHIPPING TRAY

STOCK NO.

N/A

DRAWING NO.

MSC-8603-A

DO NOT SCALE DRAWING

SHEET 2 OF 2

SCALE

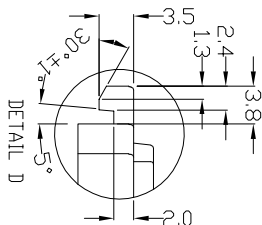
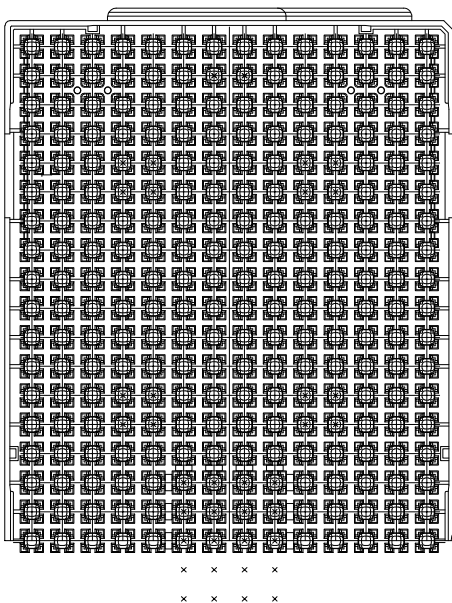
N/A

SIZE

N/A

REV

00



NOTE: SCALLOP IS CENTERED ON SIDE OF TRAY

DETAIL C

DO NOT SCALE DRAWING	SHEET 1 OF 2
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SECTION A-A

Dimensions and Tolerances for Section A-A:

- Overall Width: $8.15(M)$
- Overall Width: $9.20(M3)$
- Internal Width: $4.20 \pm 0.08(C1)$
- Internal Width: $\Phi 0.50(M) | A | B | C$
- Internal Width: $4.20 \pm 0.08(C2)$
- Internal Width: $\Phi 0.50(M) | A | B | C$
- Internal Width: 1.50
- Internal Width: 2.08
- Internal Width: 4.30 ± 0.10
- Internal Width: $1.55 \pm 0.10(Kb)$
- Internal Width: 1.60
- Internal Width: $1.60 \pm 0.10(Ks)$
- Internal Width: 1.65

SECTION H-H

Dimensions and Tolerances for Section H-H:

- Overall Width: $\langle A1 \rangle 311.15 \pm 0.25$
- Internal Width: $\Phi 0.20(M) | A | X | (M)$
- Internal Width: $\langle A2 \rangle 311.66 \pm 0.25$
- Internal Width: $\Phi 0.20(M) | A | X | (M)$
- Internal Width: $\langle B1 \rangle 132.08 \pm 0.25$
- Internal Width: $\Phi 0.20(M) | A | Z | (M)$
- Internal Width: $\langle B2 \rangle 132.59 \pm 0.25$
- Internal Width: $\Phi 0.20(M) | A | Z | (M)$

SECTION J-J

Dimensions and Tolerances for Section J-J:

- Overall Width: $7.90(M1)$
- Overall Width: $8.80(M2)$
- Internal Width: $4.20 \pm 0.08(C1)$
- Internal Width: $\Phi 0.50(M) | A | B | C$
- Internal Width: $4.20 \pm 0.08(C2)$
- Internal Width: $\Phi 0.50(M) | A | B | C$
- Internal Width: 1.50
- Internal Width: 2.08
- Internal Width: 4.30 ± 0.10
- Internal Width: $1.55 \pm 0.10(Kb)$
- Internal Width: 1.60
- Internal Width: $1.60 \pm 0.10(Ks)$
- Internal Width: 1.65

SECTION B-B

**TOLERANCES UNLESS
OTHERWISE SPECIFIED**

DECIMAL :	.X $\pm$.25
	.XX $\pm$.13
	.XXX $\pm$
ANGLE : $\pm$ 0.5°	
ANGULAR : $\pm$	



6024 Silver Creek Valley Road,
San Jose, CA 95138
PHONE: (408) 284-8200
FAX: (408) 284-3572

TITLE:

LDG 24, NBG 16/24, NBT 16, NCG 20,

INDO ZC, INDO ZC/ZT & INDO ZC 01111 1 INDO
TRAY

STOCK

N/A

DRAWING NO.

MSC-8546-A

DO NOT SCALE DRAWING

SHEET 2 OF 2