

Product Change Notice

(PCN Tracking Number: EE-QR-211014-01)

Version: 1

Customer:	ALL Customers
Renesas Product Type:	USB3.0 Host/Hubb controller devices UPD720201K8-xxx-BAC-A, UPD720202K8-xxx-BAA-A, UPD720210K8-BAF-A
Description of Change:	Introduction of additional assembly and test sites: Assembly: PTI/Greatek (Powertech Technology, Group Greatek Electronics) Test: Sigurd-UTC (Sigurd UTC Corporation) Booking Part Numbers remain unchanged!
Reason for Change:	Increase of production capacity
Identification:	Identifiable via date code and package marking
Schedules:	Sample delivery: b/o Feb. 2022 Qualification report: b/o Mar. 2022 Requested approval e/o Mar. 2022 Change Implementation Apr. 2022
Anticipated Impact:	Form & Function: None Fit: Slight dimension difference in exposed-PAD size of UPD720210K8. Renesas judges the impact on customer's implementation is minor. Quality & Reliability: None
Doc. No.:	EEQC-PCN-CR-21-2058
Internal Reference:	APTE4-BB-21-0006

In case of any question, please contact:

INITIATOR	TITLE	E-mail	PHONE No.
Farhad Banihashemi	Staff Engineer	farhad.banihashemi@renesas.com	+49-211-6503-1844

Düsseldorf, 14.10.2021

Customer Response:

(please fill in and return by e-mail, fax or mail)

- | | |
|--|------------------------|
| <input type="checkbox"/> acknowledge | Company: _____ |
| <input type="checkbox"/> acceptable | |
| <input type="checkbox"/> unacceptable (pls. comment) | Name & Position: _____ |
| <input type="checkbox"/> not applicable | Phone / Fax No.: _____ |

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 in which to make any objections to the 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, they must provide Renesas with a last time buy demand and purchase order.

Comments:

_____ (Signature)

Details of Change:

Comparison Table:

Item		New (Adding site)	Current 1	Current 2
Assembly	Assembly-Company	PTI/Greatek	ASE-Shanghai	SPIL
	Assembly-Country	Taiwan	China	Taiwan
	Assembly-location	Zhunan	Shanghai	Taichung
	Package-outline	See page 2	See page 2	See page 2
	Lead-frame	Cu	Cu	Cu
	Molding-material	Epoxy-resin	Epoxy-resin	Epoxy-resin
	Outer-lead-plating	Pure-Sn	Pure-Sn	Pure-Sn
	Wire-bonding	Cu	Cu	Cu
	Die-bond-material	Ag-paste	Ag-paste	Ag-paste
	Marking	See page 3	See page 3	See page 3
Final-test	Final-testing-Company	Sigurd-UTC	GTC	GTC
	Final-testing-Country	Taiwan	Taiwan	Taiwan
	Final-testing-location	Hsin-chu	Hsin-chu	Hsin-chu
Packing	Shipping-form-(Tray)	See pages 4-5	See pages 4-5	See pages 4-5

Package Outline Specification:

Table 1-1 UPD720201K8 package outline specification

Item	New	Current
Package type	68pin QFN w/ exposed pad	68pin QFN w/ exposed pad
Package size	8x8 mm	8x8 mm
Package thickness	Max 0.9mm	Max 0.9mm
Pin count	68pin	68pin
Pin pitch	0.4mm	0.4mm
Exposed-PAD size	Typ:6.2 x 6.2 mm	Typ:6.2 x 6.2 mm

Table 1-2 UPD720202K8 package outline specification

Item	New	Current
Package type	48pin QFN w/ exposed pad	48pin QFN w/ exposed pad
Package size	7x7mm	7x7mm
Package thickness	Max 0.9mm	Max 0.9mm
Pin count	48pin	48pin
Pin pitch	0.5mm	0.5mm
Exposed-PAD size	Typ:5.7x5.7mm	Typ:5.7x5.7mm

Table 1-3 UPD720210K8 package outline specification

Item	New	Current
Package type	76pin QFN w/ exposed pad	76pin QFN w/ exposed pad
Package size	9x9 mm	9x9 mm
Package thickness	Max 0.9mm	Max 0.9mm
Pin count	76pin	76pin
Pin pitch	0.4mm	0.4mm
Exposed-PAD size (*1)	Typ:5.2x5.2 mm	Typ:5.3x5.3 mm

(*1) There is a difference of dimension. We judge that the impact on the customer's implementation is minor.

Marking Specification:

	Current (ASE-SH)	New (PTI/ Greatek)
UPD720201K8-701-BAC-A	<p>D720201 701 yywwQVxxxG CHINA</p> <p>yy : Year Code ww : Week Code QV : Factory Code xxx : Serial Number G : Factory Code2</p> <p>1pin & Pb-free Mark</p>	<p>D720201 701 yywwTVxxxS TAIWAN</p> <p>yy : Year Code ww : Week Code TV : Factory Code xxx : Serial Number S : Factory Code2</p> <p>1pin & Pb-free Mark</p>
UPD720201K8-711-BAC-A	<p>D720201 711 yywwQVxxxG CHINA</p> <p>yy : Year Code ww : Week Code QV : Process Code xxx : Serial Number G : Factory Code2</p> <p>1pin & Pb-free Mark</p>	<p>D720201 711 yywwTVxxxS TAIWAN</p> <p>yy : Year Code ww : Week Code TV : Process Code xxx : Serial Number S : Factory Code2</p> <p>1pin & Pb-free Mark</p>
UPD720202K8-701-BAA-A	<p>D720202 701 yywwQVxxxG CHINA</p> <p>yy : Year Code ww : Week Code QV : Factory Code xxx : Serial Number G : Factory Code2</p> <p>1pin & Pb-free Mark</p>	<p>D720202 701 yywwTVxxxS TAIWAN</p> <p>yy : Year Code ww : Week Code TV : Factory Code xxx : Serial Number S : Factory Code2</p> <p>1pin & Pb-free Mark</p>
UPD720202K8-711-BAA-A	<p>D720202 711 yywwQVxxxG CHINA</p> <p>yy : Year Code ww : Week Code QV : Factory Code xxx : Serial Number G : Factory Code2</p> <p>1pin & Pb-free Mark</p>	<p>D720202 711 yywwTVxxxS TAIWAN</p> <p>yy : Year Code ww : Week Code TV : Process Code xxx : Serial Number S : Factory Code2</p> <p>1pin & Pb-free Mark</p>
UPD720210K8-BAF-A	<p>D720210 yywwQVxxxM TAIWAN</p> <p>yy : Year Code ww : Week Code QV : Process Code xxx : Serial Number M : Factory Code2</p> <p>1pin & Pb-free Mark</p>	<p>D720210 yywwTVxxxS TAIWAN</p> <p>yy : Year Code ww : Week Code TV : Factory Code xxx : Serial Number S : Factory Code2</p> <p>1pin & Pb-free Mark</p>

IC Tray Specification:

Table 2-1 UPD720201K8 IC Tray specification
ASH-SH(P/N JT5080801-01 REV.B)

Position dimension of cells	Z	1.8
	Zw	10.35
	ZL	10.00
	eW	12.80
	eL	11.80
	Sw	92.1
Thickness (mm)	H1	7.62
Number of cells	Nw	10
	NL	26
Maximum storage No. IC/Tray		260
Material		PPE
Heat resistant temperature		150°C MAX
Surface resistance		$\geq 1.0 \times 10^9 \Omega$ & $< 1.0 \times 10^{12} \Omega$ ohm/sq

Gretek (P/N EA70808-10)

Position dimension of cells	Z	1.5
	Zw	10.75
	ZL	11.90
	eW	10.40
	eL	10.40
	Sw	92.1
Thickness (mm)	H1	7.62
Number of cells	Nw	12
	NL	29
Maximum storage No. IC/Tray		348
Material		PPE
Heat resistant temperature		150°C MAX
Surface resistance		$1 \times 10^9 \sim 1 \times 10^{12} \Omega$ OHM/SQ

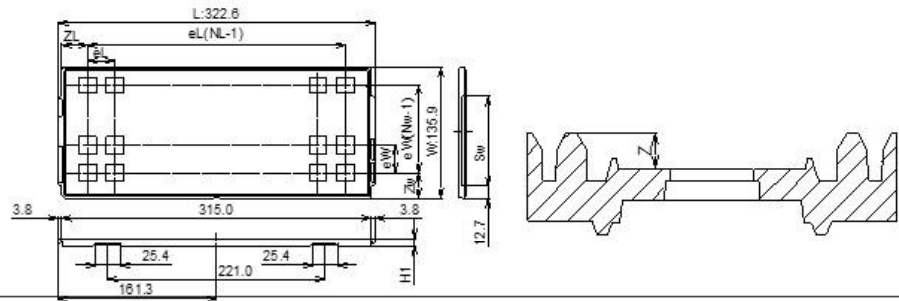


Table 2-2 UPD720202K8 IC Tray specification
ASH-SH(P/N JT50070701-01 REV.B)

Position dimension of cells	Z	1.8
	Zw	10.35
	ZL	10.00
	eW	12.80
	eL	11.80
	Sw	92.1
Thickness (mm)	H1	7.62
Number of cells	Nw	10
	NL	26
Maximum storage No. IC/Tray		260
Material		PPE
Heat resistant temperature		150°C MAX
Surface resistance		$\geq 1.0 \times 10^9 \Omega$ & $< 1.0 \times 10^{12} \Omega$ ohm/sq

Gretek(P/N EAG0707-10)

Position dimension of cells	Z	1.4
	Zw	11.55
	ZL	11.80
	eW	9.40
	eL	9.40
	Sw	92.1
Thickness (mm)	H1	7.62
Number of cells	Nw	13
	NL	32
Maximum storage No. IC/Tray		416
Material		PPE
Heat resistant temperature		150°C MAX
Surface resistance		$1 \times 10^9 \sim 9 \times 10^9 \Omega$ OHM/SQ

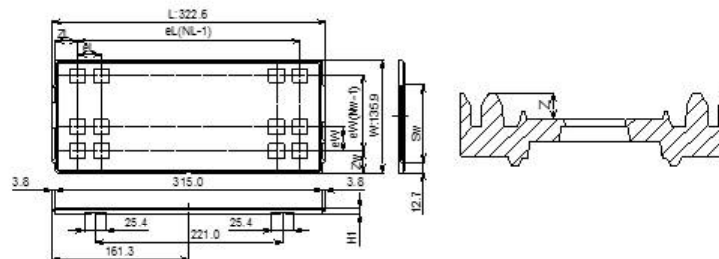
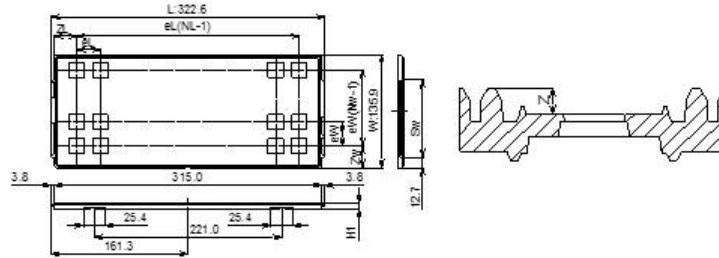


Table 2-3 UPD720210K8 IC Tray specification
SPIL(P/N 14L-0909-B19)

Position dimension of cells	Z	1.8
	Zw	10.35
	ZL	10.00
	eW	12.80
	eL	11.80
	Sw	92.1
Thickness (mm)	H1	7.62
Number of cells	Nw	10
	NL	26
Maximum storage No. IC/Tray		260
Material		MPPO
Heat resistant temperature		150°C MAX
Surface resistance		$\geq 1.0 \times 10^9 \& \leq 1.0 \times 10^{11}$ ohm/sq

Greatek(P/N QJ-003)

Position dimension of cells	Z	1.55
	Zw	10.35
	ZL	10.00
	eW	12.80
	eL	11.80
	Sw	92.1
Thickness (mm)	H1	7.62
Number of cells	Nw	10
	NL	26
Maximum storage No. IC/Tray		260
Material		PPE + Carbon Fiber
Heat resistant temperature		24 HOURS 150°C
Surface resistance		$1 \times 10^5 \sim 9 \times 10^9$ Ω/sq



Product List:

Booking P/N	New site combination	Current site combination
UPD720201K8-701-BAC-A	ASSY:Greatek, FT:Sigurd-UTC	ASSY:ASE-SH, FT:GTC
UPD720201K8-711-BAC-A	ASSY:Greatek, FT:Sigurd-UTC	ASSY:ASE-SH, FT:GTC
UPD720202K8-701-BAA-A	ASSY:Greatek, FT:Sigurd-UTC	ASSY:ASE-SH, FT:GTC
UPD720202K8-711-BAA-A	ASSY:Greatek, FT:Sigurd-UTC	ASSY:ASE-SH, FT:GTC
UPD720210K8-BAF-A	ASSY:Greatek, FT:Sigurd-UTC	ASSY:SPIL, FT:GTC

MPN's

UPD720201K8-701-BAC-A

UPD720201K8-711-BAC-A

UPD720202K8-701-BAA-A

UPD720202K8-711-BAA-A

UPD720210K8-BAF-A