

Product Change Notification

Issue date: 04 Oct 2022

Effective date: 16 Jan 2023

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For more details please contact your respective Nexperia CSR/AM.

CN-202204023F



Release of 8 inch wafer diameter for RETs

Change Category

Location

-ab Process [X] Wafer Fab Material	[X] Assembl y Process [X] Assembl y Materials [] Assembl y Location	[] Product Marking [] Mechanical Specification [] Packing/Shipping/Labelin g	[] Test Location [] Test Process [] Test Equipmen t	[X] Design [] Errata [] Electrical spec./Tes t coverage
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Details of this change

Release of production using 8 inch wafer diameter for resistor-equipped Transistors (RET).

For selected types, the conversion is combined with the introduction of:

- Change of die layout and die pitch size
- Cu-wire introduction + EMC change
- Change of top side metallization
- Change of back side metallization
- Change of die thickness

Please refer to the Self Qualification Report for details and list of affected product types.

Production on 8 inch wafer diameter implies the use of the respective 8 inch wafer process technology.

SQR_CN_202204023F.pdf: https://qcm.nexperia.com/Document/DOC-544359/SQR_CN_202204023F.pdf

CN-FORM-Rev_5_0_2_CN-202204023F.xlsm: https://qcm.nexperia.com/Document/DOC-544172/CN-FORM-Rev_5_0_2_CN-202204023F.xlsm

CN-Delta-Qualification-Matrix-ZVEI-5_0_14_CN-202204023F.xlsm: https://qcm.nexperia.com/Document/DOC-544153/CN-Delta-Qualification-Matrix-ZVEI-5 0 14 CN-202204023F.xlsm

Why do we implement this change?

- Improved supply situation by capacity expansion in the wafer fab
- State of the Art technology by continuous alignment with world class technology trends
- Increase flexibility and improved volume ramp-up

Identification of affected products

The 8 inch products can be identified by a marker on the die surface. Changed products can be identified by date code after implementation.

Product availability

Production

Planned first shipment: 01 Feb 2023

Existing inventory will be shipped until depleted

Sample information

Samples are available upon request

Impact

No impact to the product's functionality anticipated

Data sheet revision

No impact to existing datasheet

Disposition of old products

Supply using 6 inch wafer will be continued in parallel to 8 inch wafer production.

Feedback

Your acknowledgement of this change, conform JEDEC J-STD-046, is expected till 03 Nov 2022. Lack of acknowledgement of the PCN constitutes acceptance of the change.

Additional information

View Change Notification Online

Contact and support

For all Quality Notification content inquiries, please contact your local Nexperia Sales Support Team.

For specific questions on this notice or the products affected please contact our specialist directly: pcn@nexperia.com

In case of distribution, please contact you distribution partner.

About Nexperia B.V.

We at Nexperia are the efficiency semiconductor company. We deliver over 90 billion products a year and as such service thousands of global customers, both directly and through our extensive network of channel partners. We are at the heart of billions of electronic devices in the Automotive, Mobile, Industrial, Consumer, Computing, and Communication Infrastructure segments.

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954058052115	PBL32302Y,223		PRINTER	15 V PRP BIS tooked th	sorses	1048	NA.			No.					Sipolar Disordes
954058053115 954058054115	PBL52502Y,225 PBL52502Y,225		PBLS1500Y PBLS1500Y	13 V PNP BIS lookwitch 13 V PNP BIS lookwitch	SOTIMS SOTIMS	1048	NA.			No.					Equilar Discretes Equilar Discretes
						1048	RFS			No.					
950000920115 950058000115	PRIADODY QX PRIADODY 223		PBLS1SGEF-Q PBLSSGEF	13 V PNP RES Socients 62 V PNP RES Socients	SCTMS SCTMS	10 68 10 68	NS.			No.					Spotar Dooretes Spotar Dooretes
954058645115	PBL56002Y,225		PRINCES	42 V PNP B33 Southwitch	507365	1048	NS.			No.					Signific Disordes
950660802115	PBL54002Y-QX		PRIMITEY-Q	42 V PSP BIS lookedub	107365	SC 68	N/S			No					Sipolar Discretes
954058648115 850060061115	PRIADORY,225	PBUMDDEF,115	PRESERVE	45 V PRP BIS Indicates	307363	1048	NS.			No.					Spoter Dooretes Spoter Dooretes
954058647115	P8L56004Y,225		PRINCES	42 V PNP BIS lookedub	scraes	10 68	NS.			No					Blocker Encycles
950058668115 950060925115	PRIARDRY DX	PBUMBORF,115	PRIADDEF PRIADDEF-Q	62 V PRP BIS Socients 62 V PRP BIS Socients	SCENIA SCENIA	10 68 10 68	N/S			No.					Spotar Dooretes Spotar Dooretes
950000025115 950056791115	PREMIUM CX PREMIUM LIN		PETALLIATU	MY resider equipmed transitions \$1 + 1 kDhm, \$2 + 10 kDhm	NOTSES NOTSES	50-88 50-70	NS			No.					Spotar Dooretes Spotar Dooretes
954044040113	PO1511674,115		POTALLETU	PRP resider equipped transition; E1 = 12 kGhm, E2 = open	507329	10.70	RFS.			No.					Spotar Dooretes
950058366115 950058789115	POTA115EU,115 POTA115TU,115		POTALISTU POTALISTU	PSF resider equipped transition; E1 = 100 bOhm, E2 = 100 bOhm PSF resider equipped transition; E1 = 100 bOhm, E2 = open	NOTIZE NOTIZE	50:70 50:70	NA.			No.					Signific Discretes Signific Discretes
110007132111					107321		MI.			No.					Blocky Doctors
954059987115 854058787115	POTA12374,115		POTALIZATU POTALIZATU		507323 507323	50 70 50 70	RFS.			No.					Spotar Discretes Spotar Discretes
854058792115 854058245115	POTA12894,115 POTA12674,115		POTRIZZYU POTRIZZTU	PMF residor equipped transitions, E1 = 2.2 liClies, E2 = 20 LiClies PMF residor equipped transitions, E1 = 22 LiClies, E2 = open.	NOTAZE NOTAZE	50 70 50 70	NA.			No.					Spotar Discretes Spotar Discretes
116017116111	P01012001111		PETALOGNU	PRF resident equipment transitions \$1 + 22 hOhm, \$2 + 67 hOhm	107323	10.70	m.			No.					Books Doores
950097939333	PD1824174.333		POTRIGITU	PSP recitor enurseed transplant \$2 + 67 MShm, \$2 + spen	107321	10.70	N/S			No					Blocker Encycles
950058364115 950058795115	POTA1607U,115 POTA1607U,115		POTALOGYU POTALOGYU	PMF residor equipped transitions, EL + 67 kGhm, EL + open. PMF residor equipped transitions, EL + 67 kGhm, EL + 20 kGhm.	107121 107121	50 70 50 70	NA.			No.					Spotar Dooretes Spotar Dooretes
954054705115	PD13146WU,115		PETALOGOV	Mit reador equipped transition; E1 + 67 kOhm, E2 + 27 kOhm	107321	10.70	MI.			No.					Sipolar Dooretes
			POTRILING		507329	10.70	RFS.			No.					
#5406#333115 #5406#334135	POTRIISUX POTRIISUF		P07811350 P07811350	500 mA, 50 Y PIP residar equipped transitions 500 mA, 50 Y PIP residar equipped transitions	107121 107121	50 70 50 70	NA.			No.					Spotar Dooretes Spotar Dooretes
*1006531513	POTRILINGE		PETRILING	100 mA, 10 Y PIP resider equipped transitions	107321	10.70	MI.			No.					Sipolar Dooretes
954068339235	POTELLIGIUP		POTRILORU		507329		RFS.			No.					
#5406#339115 #5406#335135	POTELLIBUX POTELLIBUP		P0781146U P0781236U	500 mA, 50 Y PMP resident equipped transitions 500 mA, 50 Y PMP resident equipped transitions	107121 107121	50 70 50 70	875			No.					Spotar Dooretes Spotar Dooretes
11004111111	POTRIZINA		PETRIZARU	NOTICE AND VINE CONTRACTOR OF CONTRACTOR	107323	10.70	m.			No.					Books Doores
954068339235	POTELLEVAP		POTRIZIYU	500 mA, 50 Y PRP residur equipped transitions	507323	10.70	N/S			No.					Signific Disordes
954068338115 854068338115	POTRIZINUX POTRIZINUX		POTRIZIYU	500 mA, 50 V PRF resider equipped transitions 500 mA, 50 V PRF resider equipped transitions	307323 307323	10.70	N/S			No					Spotar Discretes Spotar Discretes
\$54068337115 \$54068337115	POTESSIBLE		POTRICHU		NOTS25 NOTS25	50-70 50-70	NA.			No.					Signific Discretes Signific Discretes
\$5406K11K115	POTESCOCIF				507323		N/S			No.					Signific Disordes
954068338115 8540647987115	POTESASKAX BOST LANG. LIN	MERCELLET I I I	POTRICON	500 mA, 50 V PIP reador equipped transition: SPN residor equipped francistics \$1 + 20 MOhm. \$2 + open	307323 307323	50 70 50 70	N/S			No.					Spotar Discretes Spotar Discretes
954054080115 954057289115	POTCIINULIIN	PERCITATULIS	POTCISEU	NPN recitor-equipped transactor; K1 = 20 kClim, K2 = open NPN recitor-equipped transactors; K1 = 200 kClim, K2 = 100 kClim.	107323 107323	50-70 50-70	NA.			No.					Signific Discretes Signific Discretes
			POTCISSES		307323		RFS.			No.					Signific Disordes
954058795115 954057538115	POTC11974,119 POTC12984,119	PERCIZIEU 115	POTCISTU POTCISTU	NPN recitor-equipped translators, EL = 202 kOhm, EL = agen. NPN recitor-equipped translators, EL = 2.2 kOhm, EL = 2.2 kOhm.	107328 107328	50 70 50 70	805 805			No.					Spoter Dooretes Spoter Dooretes
954007538115 954009958115	PO9C1290U,115 PO9C1297U,115	POTC12MU,115	POTCIZITU	NPN residor-equipped transition; R1 = 2.3 kOhm, R2 = 2.3 kOhm NPN residor-equipped transition; R1 = 2.3 kOhm, R2 = open	NOTS25 NOTS25	50-70 50-70	NA.			No.					Signific Discretes Signific Discretes
996098797119	PD9C129V4,115	PDTC128YU.333	PRECIZEN	NPN residor equipped transactors; R1 = 2.2 kOhm, R2 = 10 kOhm	107321	10.70	MI.			No.					Booker Document
954057540115 954057541115			POTCIDATU		507329	10.70	RFS.			No.					Spotar Dooretes
954097541115 954097542115	POTC120X4,115 POTC160TH 115	PDTC126KU,115 PDTC168TU.115	POTC130KU POTC168TU	NPS recitor equipped translates, EL + 22 EChm, EL + 67 EChm NPS recitor-equipped translates, EL + 6.7 EChm, EL + 6.00	107121 107121	50 70 50 70	875			No.					Spotar Dooretes Spotar Dooretes
954057542135	P07C148TU,185		POTCLETTU	NPS recitor-equipped transactors; RS = 6.7 kGhrs, RS = open	507323	10.70	NS.			No					Signific Disordes
954057531115 954058796115	PD9C3667U,115		POTC166TU POTC166VU		107321	10.70	N/S			No					Sipolar Discretes
\$14016794111 \$14016828111	POTC360VU,335 POTC360WU,335		PETCLISTAL	NPS recitor equipped translators, EL + ET ECRos, EC + 12 ECRos NPS recitor-equipped translators, EL + ET ECRos, EC + 22 ECRos	NOTS25 NOTS25	50-70 50-70	NS			No.					Spotar Dooretes Spotar Dooretes
954068341115	POTDLISHUP		PETEGINU	500 mA, 50 Y MM resistor equipped transitions	507323	10.70	NS.			No					Signific Disordes
954068341115 954068342135	POTOLISHUM		PETEGLISTS		307323 307323	10 70 10 70	N/S			No					Spoter Dooretes Spoter Dooretes
\$54068342133 \$54068342113	POTOLISTIA		PETEGLISE	500 mA, 50 Y MM resider equipped bandulars. 500 mA, 50 Y MM resider equipped bandulars.	NOTS25 NOTS25	50-70 50-70	NS			No.					Spotar Dooretes Spotar Dooretes
110065112111	P0121231UF		POTDGZIEU	300 mA, 50 Y MM crossor revision dismoders.	107121	10.70	MI.			No.					Booke Doordes
954068332115	POTO1238UK		PETEGZINU	500 mA, 50 V NMI resistor equipped transitions.	507329	10.70	RFS.			No.					Spotar Dooretes
954068343135 854068343135	POTD122YUF		PETELIENU	500 mA, 50 Y NPK resider equipped blanddars. 500 mA, 50 Y NPK resider equipped blanddars.	307323 307323	50-70 50-70	NA.			No.					Spoter Dooretes Spoter Dooretes
*150065345233	POTOLEMUF		PETEGERN		NOTHER	10.70	MI.			No.					Blocker Encycles
954068344113	POTOLESIUS		PETEGEREU	500 mA, 50 Y NPN residor equipped bonodors.	307323	10.70	RFS.			No.					Signific Disordes
954068343133 854068343133	POTOLEGICA		PETEGERRA	500 mA, 50 V MPN resistor equipped transitions. 500 mA, 50 V MPN resistor equipped transitions.	307323 307323	10.70	NA.			No.					Spotar Discretes Spotar Discretes
15000753347	POMBLIC		POMB11	PMP PMP residon equipmed transplants RS + 30 kChm, RS + 33 kChm	NOTIZIA	DF900008-6	175			No.					Blocky Docycles
954068747347 954067179347	POMO102 POMO122		POMESE		NOTIZE	07500008-6	105 105			No					Ripotar Discretes
954067175167 954068708347	POMO LIZ		POMEGS POMEGS	NPN/PIP reador equipped transition; RE = 67 kOhm, R2 = 67 kOhm NPN/PIP reador equipped transition; RE = 6.7 kOhm, R2 = 67 kOhm	NOTIZES NOTIZES	DF500008-6 DF500008-6	NS			No.					Spoter Dooretes Spoter Dooretes
950009709367	POMOSEZ		POMDGE	NPN/PIP reador equipped transition; RS = 22 kGhm, R2 = 67 kGhm	NOT3216	DF500008-6	NS.			No					Signific Disordes
954069758347	POMOZZ		POMDO	NPN/PNP residur equipped transition; RS = 22 kOhm, R2 = 22 kOhm	5071256	DFNGG108-6	RFS.			No					Sipolar Discretes
954069744147 954069739147	POMOSZ POMHSSZ	104068738047	POMBS POMHSD	NPN/PMP readur-equipped transition; RL = 10 liChm, RJ = 20 liChm NPN/NPN resistor-equipped transition; RL = 2.2 liChm, RJ = 67 liChm	NOTIZE NOTIZE	DF500008-6 DF500008-6	N/S			No.					Sipolar Discretes Sipolar Discretes
		***************************************					MI.			No.					
954069763347	PQMH132		POMHSI	NPN/NPN recitor equipped transitions; 81 = 6.7 kG/km, 82 = 67 kG/km	NOTIZE	07500008-6	RPS			No.					Ripotar Discretes
954068758347 954068762347	POMPE		POMHS POMHS	NPN/NPN resistor equipped transitions; K1 = 67 kOhm, K3 = 67 kOhm NPN/NPN resistor equipped transitions; K1 = 20 kOhm, K3 = 67 kOhm	NOTIZE NOTIZE	DPN00008-6	ers			No.					Equilar Discretes Equilar Discretes
950079383367	PROMESTIC					0790612-9	NS.			No.					
956070172347 956072368347	PRINCISZ	PRIMOLIZ	PRM030 PRM032	50 V, 200 mt. NPN/PMP Recisior Equipped double Transitions (NET) 50 V, 200 mt. NPN/PMP Recisior Equipped double Transitions (NET)	NOTION 1 NOTION 1	DPSG412-6 DPSG412-6	MA.			No.					Spotar Dooretes Spotar Dooretes
950079348347 950079173347	PRINCESE	PRINCISE	PROFILE	53 V, 333 mil. NPR(PSP Recider Equipped double Transition (RET) 53 V, 333 mil. NPR(PSP Recider Equipped double Transition (RET)	NOT1268-1 NOT1268-1	0990024	875			No.					Signific Discretes Signific Discretes
956079174147	PRINCIAL	PRINCIPAL	PRINTEDS		S071268-1	D#NG412-6	RFS			No.					Sipolar Discretes
956070171347 856070171347	PRINCIPLE	MINESTE .	PRINCIP	50 V, 200 mt. NPN/PMP Recisior-Equipped double Transistions (NET) 50 V, 200 mt. NPN/PMP Recisior-Equipped double Transistions (NET)	NOT1288-1	DPS0412-6	RFS			No.					Spotar Decretes Spotar Decretes
850070369367 850070378367	PRINCEZ	PEMIGOZ	PRESIDE	52 V, 202 mil. NPIQPIDP Recider Equipped double Transciors (RET) 52 V, 202 mil. NPIQNPN Recider Equipped double Transciors (RET)	NOTION-1 NOTION-1	DPRGEI2-6	NA.			No.					Signific Discretes Signific Discretes
		PRIMITIZ			3071268-1	DFNG612-6	NS.			No					Signific Disordes
956070179347 856070177347	PRINCIP	PRIMICIZ	PRODUCT	50 V, 202 mil. NPN/NPN Recider Equipped double Transitions (RET) 50 V, 202 mil. NPN/NPN Recider Equipped double Transitions (RET)	S071368-1 S071368-1	DMS612-6	N/S			No					Spotar Discretes Spotar Discretes
856070177367 856070175367	PRINCE		PROG	52 V, 202 mil. NPIQNPN Resider Equipped double Transitions (RET) 52 V, 202 mil. NPIQNPN Resider Equipped double Transitions (RET)	NOTION-1 NOTION-1	DPRGEI2-6	NA.			No.					Signific Discretes Signific Discretes
954058908115	PUMB36.333				307363	1048	NS.			No					Signific Disordes
954058907115 954058906115	PUMB28,335 PUMB26,335		PUMBOS PUMBOS	PMP/PMP recipior-equipped translation; K1 = 27 kOhm, K2 = open PMP/PMP recipior-equipped translation; K1 = 200 kOhm, K2 = 200 kOhm	SCENIA SCENIA	10 68 10 68	N/S			No					Spoter Dooretes Spoter Dooretes
850058906115 850058727115	PUMBALIA PUMBALIA		PUMBS	PMP/PMP recision equipped translations, RS = 200 kCline, RS = 200 kCline. PMP/PMP recision equipped translations, RS = 6.7 kCline, RS = spen	SOTIALS SOTIALS	10 68 10 68	NA.			No.					Signific Discretes Signific Discretes
954059953115	PUMBIO.333					10.68	MS.			No.					Signific Disordes
954049943115	PUMBILIS .		PUMBE	PMP/PMP recidor-equipped transactors; R1 = 30 NOhrs, R2 = opes	sorses	50 MR	N/S			No					Sipolar Discretes
954058905115 954058906115	PUMDIALIS PUMDIALIS		PUMBER	NPN/PIP reador equipped transition; RE = 47 kOhm, R2 = open NPN/PIP reador equipped transition; RE = 22 kOhm, R2 = open	SCTMS SCTMS	10 68 10 68	ers			No.					Spotar Discretes Spotar Discretes
954058902115	PUM325,335		PUMBER	NPN/PIP resider equipped transition; RS = 100 kOhm, R2 = 100 kOhm	507365	1048	RFS.			No.					Signific Disordes
*1001711111	PUM093.113		PUMDED		SCERE	10 68	ers .			No.					
954057689115 95060912115	PUMDE,335 PUMDE OX		PUMBS O	NPN/PP readur-equipped transition; RE = 12 liChim, R2 = open NPN/PP readur-equipped transition; RE = 12 liChim, R2 = open	SCENIA SCENIA	10 68 10 68	ers			No.					Spotar Dooretes Spotar Dooretes
954055430115	PUMON,335	PUMD4,115	PUMDS	NPN/PIP reador equipped liancition; RS x 6.7 kChm, R2 x open	507365	1048	NA.			No.					Signific Disordes
956055430125 856055430125	PUMON,325 PUMON,325		PUMDS		SCTMS SCTMS	10 68 10 68	RFS.			No.					
954055432135 954057051113			PUMDS PUMPS	NPN/PIP reador-equipped lancition; RS = 6.7 kDkm, R2 = open NPN resider-equipped framibles PRP amenal purpose framibles	SOTIMS SOTIMS	10 68 10 68	NS.			No.					Spotar Dooretes Spotar Dooretes
954057995115	PUMH16,115		PUMPES	NPN/NPN residor equipped blancidars; E1 = 67 liChrs, E2 = open	507365	10.68	MS.			No.					Signific Disordes
954097900115	PUMH18,115		PUMPER	NMs/NM resistor equipped transitions; K1 = 22 Millon, K2 = open	SCEME	1048	RFS			No					Signific Discretes
854057905115 854057905115	PUMHIELIS BURNESS TIS	PUMH24,115	PUMPES	NPN/NPN resistor equipped transitions, E1 = 200 MOhm, E2 = 200 MOhm NPN/NPN dissille resistor equipped transitions, E1 = 2.2 MOhm, E2 = open	307363	1048	NS.			No.					Spoter Dooretes Spoter Dooretes
*1001011111	PUM96333	PUMPIC,115	PUMPS		scraes	1048	NS NS			No.					Blocker Encycles
#54055049115 #54055049115	PUMPTASS PUMPT	PUMH7,115	PUMIKT PUMIKT	NPN/NPN recibir equipped biancitions, E1 = 6.7 kChm, E2 = agen. NPN/NPN recibir equipped biancitions, E1 = 6.7 kChm, E2 = agen.	SCTMS SCTMS	10 68 10 68	RFS			No.					Signific Discretes Signific Discretes
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