

Product Change Notice (PCN)

Subject: Add Alternate Assembly Locations on Select VFQFPN Packages

Publication Date: 8/28/2024

Effective Date: 11/27/2024

Revision Description:

Initial Release

Description of Change:

Renesas is adding ASEK, Taiwan and GEI, Taiwan as the alternate Assembly locations in expanding the supply chain for select VFQFPN packages. The alternate assembly locations are the current qualified locations for Renesas. The material sets of the current and the alternate assembly locations are as shown in the below table. There will be changes in the material sets, equipment models and inspection items and sampling at alternate locations. The process flows are identical at all the qualified assembly locations.

There will be no changes in the moisture sensitive level as a result of this change.

Material Set / Assembly	Existing				Alternate	
	UTL, Thailand	UNIS, Malaysia	ASEK, Taiwan	ASEC, Taiwan	GEI, Taiwan	ASEK, Taiwan
VFQFPN-48, 9ZXL0853E						
Die Attach Epoxy	Henkel 8600	EN4900GC			CRM-1076DJ-G	
Bonding Wire	Copper wire	Copper wire			Copper wire	
Mold Compound	EME-G770HCD	EME-G770HJ			EME-G700HA	
VFQFPN-48, 9DML2855						
Die Attach Epoxy	Henkel 8600				CRM-1076DJ-G	
Bonding Wire	Copper wire				Copper wire	
Mold Compound	EME-G770HCD				EME-G700HA	
VFQFPN-28, RC19204A & VFQFPN-48, RC19208A						
Die Attach Epoxy	Henkel 8600				EN4900GC	
Bonding Wire	Copper wire				Copper wire	
Mold Compound	EME-G770HCD				EME-G700HA	
VFQFPN-24, 5P49V6965						
Die Attach Epoxy		EN4900GC	EN4900F	EN4900G	EN4900GC	
Bonding Wire		Copper wire	Copper wire	Copper wire	Copper wire	
Mold Compound		EME-G770HJ	EME-G631H	EME-G700LA	EME-G700HA	
VFQFPN-16, F2251						
Die Attach Epoxy	Ablecoat 8008HT					EN4900G
Bonding Wire	Copper wire					Copper wire
Mold Compound	EME-G770HCD					EME-G700LA

Affected Product List: Refer Appendix B.

Reason for Change:

The change is to create additional supplies to secure business continuity.

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

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

Product Identification:

Assembly lot# prefix denote Assembly Location

Prefix	Assembly Location
R	ASEK Taiwan
GR	GEI Taiwan

Qualification Status: Completed. Refer Appendix A

Sample Availability Date: 8 weeks from sample booking date

Device Material Declaration: Available upon request

Note:

1. Acknowledgement must be received by Renesas within 30 days or Renesas will consider the change as approved.
2. 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.
3. 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 - Qualification Results
Affected Package: VFQFPN-24, VFQFPN-28, VFQFPN-48

Qual Vehicle: VFQFPN-48

Assembly Material: As shown in page 1

Qual Plan & Results: Tests are in accordance with JEDEC47 recommended tests.

Assembly Location: GEI, Taiwan

Test Descriptions	Test Method	Test Results (Rej/SS)		
		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-55 °C to 125 °C, 700 cycles)	JESD22-A104	0/25	0/25	0/25
* HAST - biased (110 °C/85% RH, 264 Hrs)	JESD22-A110	0/25	0/25	0/25
* HAST - unbiased (130 °C/85% RH, 96 Hrs)	JESD22-A118	0/25	0/25	0/25
High Temperature Storage Bake (150 °C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25
Ball Shear Test	JESD22-B116	0/5	0/5	0/5
Bond Pull Test	MIL-STD-883 (Method 2011)	0/5	0/5	0/5
Physical Dimensions	JESD22-B100	0/30	0/30	0/30
Solderability Test	MIL-STD-883 (Method 2003)	0/5	0/5	0/5
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 3, 260 °C	0/25	0/25	0/25

*Tests were subjected to Preconditioning per JESD22-A113 prior to stress test

Affected Package: VFQFPN-48

Qual Vehicle: VFQFPN-88

Assembly Material: As shown in page 1

Qual Plan & Results: Tests are in accordance with JEDEC47 recommended tests.

Assembly Location: GEI, Taiwan

Test Descriptions	Test Method	Test Results (Rej/SS)		
		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-55 °C to 125 °C, 700 cycles)	JESD22-A104	0/25	0/25	0/25
* HAST - biased (130 °C/85% RH, 96 Hrs)	JESD22-A110	0/25	0/25	0/25
High Temperature Storage Bake (150 °C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25
Ball Shear Test	JESD22-B116	0/5	0/5	0/5
Bond Pull Test	MIL-STD-883 (Method 2011)	0/5	0/5	0/5
Physical Dimensions	JESD22-B100	0/30	0/30	0/30
Solderability Test	MIL-STD-883 (Method 2003)	0/5	0/5	0/5
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 3, 260 °C	0/25	0/25	0/25

*Tests were subjected to Preconditioning per JESD22-A113 prior to stress test

Affected Package: VFQFPN-16

Qual Vehicle: VFQFPN-16

Assembly Material: As shown in page 1

Qual Plan & Results: Tests are in accordance with JEDEC47 recommended tests.

Assembly Location: ASEK, Taiwan

Test Descriptions	Test Method	Test Results (Rej/SS)		
		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-55 °C to 125 °C, 700 cycles)	JESD22-A104	0/25	0/25	0/25
* HAST - biased (110 °C/85% RH, 96 Hrs)	JESD22-A110	0/25	0/25	0/25
* HAST - unbiased (130 °C/85% RH, 96 Hrs)	JESD22-A118	0/25	0/25	0/25
High Temperature Storage Bake (150 °C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25
Ball Shear Test	JESD22-B116	0/5	0/5	0/5
Bond Pull Test	MIL-STD-883 (Method 2011)	0/5	0/5	0/5
Physical Dimensions	JESD22-B100	0/30	0/30	0/30
Solderability Test	MIL-STD-883 (Method 2003)	0/5	0/5	0/5
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 1, 260 °C	0/25	0/25	0/25

**Tests were subjected to Preconditioning per JESD22-A113 prior to stress test*

Appendix B – Affected Product List

5P49V6965A000NLGI	5P49V6965A166NLGI	5P49V6965A188NLGI	5P49V6965A210NLGI8
5P49V6965A000NLGI8	5P49V6965A166NLGI8	5P49V6965A188NLGI8	5P49V6965A211NLGI
5P49V6965A001NLGI	5P49V6965A167NLGI	5P49V6965A189NLGI	5P49V6965A211NLGI8
5P49V6965A001NLGI8	5P49V6965A167NLGI8	5P49V6965A189NLGI8	5P49V6965A212NLGI
5P49V6965A005NLGI	5P49V6965A168NLGI	5P49V6965A190NLGI	5P49V6965A212NLGI8
5P49V6965A101NLGI	5P49V6965A168NLGI8	5P49V6965A190NLGI8	5P49V6965A214NLGI
5P49V6965A101NLGI8	5P49V6965A169NLGI	5P49V6965A191NLGI	5P49V6965A214NLGI8
5P49V6965A102NLGI	5P49V6965A169NLGI8	5P49V6965A191NLGI8	5P49V6965A215NLGI
5P49V6965A102NLGI8	5P49V6965A170NLGI	5P49V6965A192NLGI	5P49V6965A215NLGI8
5P49V6965A110NLGI	5P49V6965A170NLGI8	5P49V6965A192NLGI8	5P49V6965A216NLGI
5P49V6965A110NLGI8	5P49V6965A171NLGI	5P49V6965A193NLGI	5P49V6965A216NLGI8
5P49V6965A111NLGI	5P49V6965A171NLGI8	5P49V6965A193NLGI8	5P49V6965A217NLGI
5P49V6965A111NLGI8	5P49V6965A172NLGI	5P49V6965A194NLGI	5P49V6965A217NLGI8
5P49V6965A112NLGI	5P49V6965A172NLGI8	5P49V6965A194NLGI8	5P49V6965A218NLGI
5P49V6965A112NLGI8	5P49V6965A174NLGI8	5P49V6965A195NLGI	5P49V6965A218NLGI8
5P49V6965A151NLGI	5P49V6965A175NLGI	5P49V6965A195NLGI8	5P49V6965A219NLGI
5P49V6965A151NLGI8	5P49V6965A175NLGI8	5P49V6965A196NLGI	5P49V6965A219NLGI8
5P49V6965A152NLGI	5P49V6965A176NLGI	5P49V6965A196NLGI8	5P49V6965A220NLGI
5P49V6965A152NLGI8	5P49V6965A176NLGI8	5P49V6965A197NLGI	5P49V6965A220NLGI8
5P49V6965A153NLGI	5P49V6965A177NLGI	5P49V6965A197NLGI8	5P49V6965A221NLGI
5P49V6965A153NLGI8	5P49V6965A177NLGI8	5P49V6965A199NLGI	5P49V6965A221NLGI8
5P49V6965A154NLGI	5P49V6965A178NLGI	5P49V6965A199NLGI8	5P49V6965A222NLGI
5P49V6965A154NLGI8	5P49V6965A178NLGI8	5P49V6965A200NLGI	5P49V6965A222NLGI8
5P49V6965A155NLGI	5P49V6965A179NLGI	5P49V6965A200NLGI8	5P49V6965A223NLGI
5P49V6965A155NLGI8	5P49V6965A179NLGI8	5P49V6965A201NLGI	5P49V6965A223NLGI8
5P49V6965A157NLGI	5P49V6965A180NLGI	5P49V6965A201NLGI8	5P49V6965A224NLGI
5P49V6965A157NLGI8	5P49V6965A180NLGI8	5P49V6965A202NLGI	5P49V6965A224NLGI8
5P49V6965A158NLGI	5P49V6965A181NLGI	5P49V6965A202NLGI8	5P49V6965A225NLGI
5P49V6965A158NLGI8	5P49V6965A181NLGI8	5P49V6965A203NLGI	5P49V6965A225NLGI8
5P49V6965A159NLGI	5P49V6965A182NLGI	5P49V6965A203NLGI8	5P49V6965A226NLGI
5P49V6965A159NLGI8	5P49V6965A182NLGI8	5P49V6965A204NLGI	5P49V6965A226NLGI8
5P49V6965A160NLGI	5P49V6965A183NLGI	5P49V6965A204NLGI8	5P49V6965A227NLGI
5P49V6965A160NLGI8	5P49V6965A183NLGI8	5P49V6965A205NLGI	5P49V6965A227NLGI8
5P49V6965A161NLGI	5P49V6965A184NLGI	5P49V6965A205NLGI8	5P49V6965A228NLGI
5P49V6965A161NLGI8	5P49V6965A184NLGI8	5P49V6965A207NLGI	5P49V6965A228NLGI8
5P49V6965A163NLGI	5P49V6965A185NLGI	5P49V6965A207NLGI8	5P49V6965A229NLGI
5P49V6965A163NLGI8	5P49V6965A185NLGI8	5P49V6965A208NLGI	5P49V6965A229NLGI8
5P49V6965A164NLGI	5P49V6965A186NLGI	5P49V6965A208NLGI8	5P49V6965A230NLGI
5P49V6965A164NLGI8	5P49V6965A186NLGI8	5P49V6965A209NLGI	5P49V6965A230NLGI8
5P49V6965A165NLGI	5P49V6965A187NLGI	5P49V6965A209NLGI8	5P49V6965A231NLGI
5P49V6965A165NLGI8	5P49V6965A187NLGI8	5P49V6965A210NLGI	5P49V6965A231NLGI8

5P49V6965A233NLGI	5P49V6965A254NLGI8	5P49V6965A277NLGI	5P49V6965A299NLGI8
5P49V6965A233NLGI8	5P49V6965A255NLGI	5P49V6965A277NLGI8	5P49V6965A300NLGI
5P49V6965A234NLGI	5P49V6965A255NLGI8	5P49V6965A278NLGI	5P49V6965A300NLGI8
5P49V6965A234NLGI8	5P49V6965A256NLGI	5P49V6965A278NLGI8	5P49V6965A301NLGI
5P49V6965A235NLGI	5P49V6965A256NLGI8	5P49V6965A279NLGI	5P49V6965A301NLGI8
5P49V6965A235NLGI8	5P49V6965A257NLGI	5P49V6965A279NLGI8	5P49V6965A302NLGI
5P49V6965A236NLGI	5P49V6965A257NLGI8	5P49V6965A280NLGI	5P49V6965A302NLGI8
5P49V6965A236NLGI8	5P49V6965A258NLGI	5P49V6965A280NLGI8	5P49V6965A303NLGI
5P49V6965A237NLGI	5P49V6965A258NLGI8	5P49V6965A281NLGI	5P49V6965A303NLGI8
5P49V6965A237NLGI8	5P49V6965A259NLGI	5P49V6965A281NLGI8	5P49V6965A304NLGI
5P49V6965A238NLGI	5P49V6965A259NLGI8	5P49V6965A282NLGI	5P49V6965A304NLGI8
5P49V6965A238NLGI8	5P49V6965A260NLGI	5P49V6965A282NLGI8	5P49V6965A305NLGI
5P49V6965A239NLGI	5P49V6965A260NLGI8	5P49V6965A283NLGI	5P49V6965A305NLGI8
5P49V6965A239NLGI8	5P49V6965A261NLGI	5P49V6965A283NLGI8	5P49V6965A306NLGI
5P49V6965A240NLGI	5P49V6965A261NLGI8	5P49V6965A284NLGI	5P49V6965A306NLGI8
5P49V6965A240NLGI8	5P49V6965A262NLGI	5P49V6965A284NLGI8	5P49V6965A307NLGI
5P49V6965A241NLGI	5P49V6965A262NLGI8	5P49V6965A285NLGI	5P49V6965A307NLGI8
5P49V6965A241NLGI8	5P49V6965A263NLGI	5P49V6965A285NLGI8	5P49V6965A308NLGI
5P49V6965A243NLGI	5P49V6965A263NLGI8	5P49V6965A286NLGI	5P49V6965A308NLGI8
5P49V6965A243NLGI8	5P49V6965A264NLGI	5P49V6965A286NLGI8	5P49V6965A309NLGI
5P49V6965A244NLGI	5P49V6965A264NLGI8	5P49V6965A287NLGI	5P49V6965A309NLGI8
5P49V6965A244NLGI8	5P49V6965A265NLGI	5P49V6965A287NLGI8	5P49V6965A310NLGI
5P49V6965A245NLGI	5P49V6965A265NLGI8	5P49V6965A288NLGI	5P49V6965A310NLGI8
5P49V6965A245NLGI8	5P49V6965A266NLGI	5P49V6965A288NLGI8	5P49V6965A311NLGI
5P49V6965A246NLGI	5P49V6965A266NLGI8	5P49V6965A290NLGI	5P49V6965A311NLGI8
5P49V6965A246NLGI8	5P49V6965A268NLGI	5P49V6965A290NLGI8	5P49V6965A312NLGI
5P49V6965A247NLGI	5P49V6965A268NLGI8	5P49V6965A291NLGI	5P49V6965A312NLGI8
5P49V6965A247NLGI8	5P49V6965A269NLGI	5P49V6965A291NLGI8	5P49V6965A313NLGI
5P49V6965A248NLGI	5P49V6965A269NLGI8	5P49V6965A292NLGI	5P49V6965A313NLGI8
5P49V6965A248NLGI8	5P49V6965A270NLGI	5P49V6965A292NLGI8	5P49V6965A314NLGI
5P49V6965A249NLGI	5P49V6965A270NLGI8	5P49V6965A294NLGI	5P49V6965A314NLGI8
5P49V6965A249NLGI8	5P49V6965A271NLGI	5P49V6965A294NLGI8	5P49V6965A315NLGI
5P49V6965A250NLGI	5P49V6965A271NLGI8	5P49V6965A295NLGI	5P49V6965A315NLGI8
5P49V6965A250NLGI8	5P49V6965A273NLGI	5P49V6965A295NLGI8	5P49V6965A316NLGI
5P49V6965A251NLGI	5P49V6965A273NLGI8	5P49V6965A296NLGI	5P49V6965A316NLGI8
5P49V6965A251NLGI8	5P49V6965A274NLGI	5P49V6965A296NLGI8	5P49V6965A317NLGI
5P49V6965A252NLGI	5P49V6965A274NLGI8	5P49V6965A297NLGI	5P49V6965A317NLGI8
5P49V6965A252NLGI8	5P49V6965A275NLGI	5P49V6965A297NLGI8	5P49V6965A318NLGI
5P49V6965A253NLGI	5P49V6965A275NLGI8	5P49V6965A298NLGI	5P49V6965A318NLGI8
5P49V6965A253NLGI8	5P49V6965A276NLGI	5P49V6965A298NLGI8	5P49V6965A319NLGI
5P49V6965A254NLGI	5P49V6965A276NLGI8	5P49V6965A299NLGI	5P49V6965A319NLGI8
5P49V6965A320NLGI	5P49V6965A342NLGI8	5P49V6965A368NLGI	5P49V6965A393NLGI8
5P49V6965A320NLGI8	5P49V6965A343NLGI	5P49V6965A368NLGI8	5P49V6965A396NLGI

5P49V6965A321NLGI	5P49V6965A343NLGI8	5P49V6965A369NLGI	5P49V6965A396NLGI8
5P49V6965A321NLGI8	5P49V6965A344NLGI	5P49V6965A369NLGI8	5P49V6965A398NLGI
5P49V6965A322NLGI	5P49V6965A344NLGI8	5P49V6965A370NLGI	5P49V6965A398NLGI8
5P49V6965A322NLGI8	5P49V6965A345NLGI	5P49V6965A370NLGI8	5P49V6965A399NLGI
5P49V6965A323NLGI	5P49V6965A345NLGI8	5P49V6965A371NLGI	5P49V6965A399NLGI8
5P49V6965A323NLGI8	5P49V6965A346NLGI	5P49V6965A371NLGI8	5P49V6965A400NLGI
5P49V6965A324NLGI	5P49V6965A346NLGI8	5P49V6965A373NLGI	5P49V6965A400NLGI8
5P49V6965A324NLGI8	5P49V6965A347NLGI	5P49V6965A373NLGI8	5P49V6965A401NLGI
5P49V6965A325NLGI	5P49V6965A347NLGI8	5P49V6965A374NLGI	5P49V6965A401NLGI8
5P49V6965A325NLGI8	5P49V6965A348NLGI	5P49V6965A374NLGI8	5P49V6965A402NLGI
5P49V6965A326NLGI	5P49V6965A348NLGI8	5P49V6965A376NLGI	5P49V6965A402NLGI8
5P49V6965A326NLGI8	5P49V6965A349NLGI	5P49V6965A376NLGI8	5P49V6965A403NLGI
5P49V6965A327NLGI	5P49V6965A349NLGI8	5P49V6965A378NLGI	5P49V6965A403NLGI8
5P49V6965A327NLGI8	5P49V6965A350NLGI	5P49V6965A378NLGI8	5P49V6965A404NLGI
5P49V6965A328NLGI	5P49V6965A350NLGI8	5P49V6965A379NLGI	5P49V6965A404NLGI8
5P49V6965A328NLGI8	5P49V6965A351NLGI	5P49V6965A379NLGI8	5P49V6965A405NLGI
5P49V6965A329NLGI	5P49V6965A351NLGI8	5P49V6965A380NLGI	5P49V6965A405NLGI8
5P49V6965A329NLGI8	5P49V6965A352NLGI	5P49V6965A380NLGI8	5P49V6965A406NLGI
5P49V6965A330NLGI	5P49V6965A352NLGI8	5P49V6965A381NLGI	5P49V6965A406NLGI8
5P49V6965A330NLGI8	5P49V6965A355NLGI	5P49V6965A381NLGI8	5P49V6965A407NLGI
5P49V6965A332NLGI	5P49V6965A355NLGI8	5P49V6965A382NLGI	5P49V6965A407NLGI8
5P49V6965A332NLGI8	5P49V6965A357NLGI	5P49V6965A382NLGI8	5P49V6965A408NLGI
5P49V6965A333NLGI	5P49V6965A357NLGI8	5P49V6965A383NLGI	5P49V6965A408NLGI8
5P49V6965A333NLGI8	5P49V6965A358NLGI	5P49V6965A383NLGI8	5P49V6965A409NLGI
5P49V6965A334NLGI	5P49V6965A358NLGI8	5P49V6965A384NLGI	5P49V6965A409NLGI8
5P49V6965A334NLGI8	5P49V6965A360NLGI	5P49V6965A384NLGI8	5P49V6965A410NLGI
5P49V6965A335NLGI	5P49V6965A360NLGI8	5P49V6965A385NLGI	5P49V6965A410NLGI8
5P49V6965A335NLGI8	5P49V6965A362NLGI	5P49V6965A385NLGI8	5P49V6965A411NLGI
5P49V6965A336NLGI	5P49V6965A362NLGI8	5P49V6965A388NLGI	5P49V6965A411NLGI8
5P49V6965A336NLGI8	5P49V6965A363NLGI	5P49V6965A388NLGI8	5P49V6965A412NLGI
5P49V6965A337NLGI	5P49V6965A363NLGI8	5P49V6965A389NLGI	5P49V6965A412NLGI8
5P49V6965A337NLGI8	5P49V6965A364NLGI	5P49V6965A389NLGI8	5P49V6965A414NLGI
5P49V6965A338NLGI	5P49V6965A364NLGI8	5P49V6965A390NLGI	5P49V6965A414NLGI8
5P49V6965A338NLGI8	5P49V6965A365NLGI	5P49V6965A390NLGI8	5P49V6965A415NLGI
5P49V6965A339NLGI	5P49V6965A365NLGI8	5P49V6965A391NLGI	5P49V6965A415NLGI8
5P49V6965A339NLGI8	5P49V6965A366NLGI	5P49V6965A391NLGI8	5P49V6965A416NLGI
5P49V6965A340NLGI	5P49V6965A366NLGI8	5P49V6965A392NLGI	5P49V6965A416NLGI8
5P49V6965A340NLGI8	5P49V6965A367NLGI	5P49V6965A392NLGI8	5P49V6965A418NLGI
5P49V6965A342NLGI	5P49V6965A367NLGI8	5P49V6965A393NLGI	5P49V6965A418NLGI8
5P49V6965A419NLGI	5P49V6965A448NLGI8	5P49V6965A470NLGI	5P49V6965A494NLGI
5P49V6965A420NLGI	5P49V6965A449NLGI	5P49V6965A471NLGI	5P49V6965A494NLGI8
5P49V6965A422NLGI	5P49V6965A449NLGI8	5P49V6965A471NLGI8	5P49V6965A496NLGI
5P49V6965A423NLGI	5P49V6965A450NLGI	5P49V6965A473NLGI	5P49V6965A504NLGI

5P49V6965A425NLGI	5P49V6965A450NLGI8	5P49V6965A473NLGI8	5P49V6965A504NLGI8
5P49V6965A426NLGI	5P49V6965A451NLGI	5P49V6965A474NLGI	5P49V6965A510NLGI
5P49V6965A426NLGI8	5P49V6965A451NLGI8	5P49V6965A474NLGI8	5P49V6965A510NLGI8
5P49V6965A427NLGI	5P49V6965A452NLGI	5P49V6965A475NLGI	5P49V6965A511NLGI
5P49V6965A428NLGI	5P49V6965A452NLGI8	5P49V6965A475NLGI8	5P49V6965A511NLGI8
5P49V6965A429NLGI	5P49V6965A453NLGI	5P49V6965A476NLGI	5P49V6965A513NLGI
5P49V6965A431NLGI	5P49V6965A453NLGI8	5P49V6965A476NLGI8	5P49V6965A513NLGI8
5P49V6965A432NLGI	5P49V6965A455NLGI	5P49V6965A477NLGI	5P49V6965A517NLGI
5P49V6965A433NLGI	5P49V6965A455NLGI8	5P49V6965A477NLGI8	5P49V6965A534NLGI
5P49V6965A433NLGI8	5P49V6965A456NLGI	5P49V6965A479NLGI	5P49V6965A534NLGI8
5P49V6965A434NLGI	5P49V6965A456NLGI8	5P49V6965A479NLGI8	5P49V6965A547NLGI
5P49V6965A434NLGI8	5P49V6965A457NLGI	5P49V6965A480NLGI	5P49V6965A547NLGI8
5P49V6965A435NLGI	5P49V6965A457NLGI8	5P49V6965A480NLGI8	5P49V6965A550NLGI
5P49V6965A435NLGI8	5P49V6965A458NLGI	5P49V6965A481NLGI	5P49V6965A550NLGI8
5P49V6965A436NLGI	5P49V6965A458NLGI8	5P49V6965A481NLGI8	5P49V6965A999NLGI
5P49V6965A436NLGI8	5P49V6965A459NLGI	5P49V6965A482NLGI	5P49V6965AENGNLGI
5P49V6965A437NLGI	5P49V6965A459NLGI8	5P49V6965A482NLGI8	5P49V6965AROONLGI8
5P49V6965A437NLGI8	5P49V6965A460NLGI	5P49V6965A483NLGI	5P49V6965AROOTNLGI
5P49V6965A438NLGI	5P49V6965A460NLGI8	5P49V6965A483NLGI8	9DML2855NDGI
5P49V6965A438NLGI8	5P49V6965A461NLGI	5P49V6965A484NLGI	9DML2855NDGI8
5P49V6965A439NLGI	5P49V6965A461NLGI8	5P49V6965A484NLGI8	9Z61108EKILF
5P49V6965A439NLGI8	5P49V6965A462NLGI	5P49V6965A485NLGI	9Z61108EKILFT
5P49V6965A440NLGI	5P49V6965A462NLGI8	5P49V6965A485NLGI8	9Z61806NDGI
5P49V6965A440NLGI8	5P49V6965A463NLGI	5P49V6965A486NLGI	9Z61806NDGI8
5P49V6965A442NLGI	5P49V6965A463NLGI8	5P49V6965A486NLGI8	9ZXL0853EKILF
5P49V6965A442NLGI8	5P49V6965A464NLGI	5P49V6965A487NLGI	9ZXL0853EKILFT
5P49V6965A443NLGI	5P49V6965A464NLGI8	5P49V6965A487NLGI8	F2251NLGI
5P49V6965A443NLGI8	5P49V6965A465NLGI	5P49V6965A488NLGI	F2251NLGI8
5P49V6965A444NLGI	5P49V6965A465NLGI8	5P49V6965A488NLGI8	RC19204AGNL#BB0
5P49V6965A444NLGI8	5P49V6965A466NLGI	5P49V6965A489NLGI	RC19204AGNL#KB0
5P49V6965A445NLGI	5P49V6965A466NLGI8	5P49V6965A489NLGI8	RC19208AGNA#BB0
5P49V6965A445NLGI8	5P49V6965A467NLGI	5P49V6965A490NLGI	RC19208AGNA#KB0
5P49V6965A446NLGI	5P49V6965A467NLGI8	5P49V6965A490NLGI8	
5P49V6965A446NLGI1	5P49V6965A468NLGI	5P49V6965A491NLGI	
5P49V6965A447NLGI	5P49V6965A468NLGI8	5P49V6965A491NLGI8	
5P49V6965A447NLGI8	5P49V6965A469NLGI	5P49V6965A492NLGI	
5P49V6965A448NLGI	5P49V6965A469NLGI8	5P49V6965A492NLGI8	