

Product Change Notice (PCN)

件名: RH850, RL78 シリーズ LQFP 製品のモールド樹脂サプライヤ追加

発行日: 2/5/2024

出荷開始予定日: 4/1/2024

改版履歴: 初版

変更内容の説明:

下記の通り RH850/F1, D1, P1, E1, C1, R1 シリーズ及び RL78/F1, D1A シリーズを対象として LQFP 製品のモールド樹脂サプライヤを追加致します。

	変更前	変更後
モールド樹脂サプライヤ追加	A 社	A 社、B 社

対象組立工場

Renesas Electronics Corporation Yonezawa Factory

Renesas Electronics Corporation Nishiki Factory

Renesas Semiconductor (Suzhou) Co., Ltd.

Renesas Semiconductor KL Sdn. Bhd.

2024 年 4 月 1 日以降に出荷される当該 LQFP 製品は、A 社もしくは B 社製モールド樹脂を使用した製品となります。ご承知の程、お願い致します。

対象製品リスト:

付録欄“対象製品リスト”をご参照ください。

変更の理由:

現行のモールド樹脂サプライヤ都合による供給不足が見込まれていることへの対応。更に、マルチ購買化により今後も安定供給を図るため。

外形、実装、機能、品質、信頼性への影響:

本変更による外形、実装、機能、品質、信頼性への影響はありません。

製品の識別方法:

製造履歴は製品のトレースコードを用いて照会可能です。

信頼性データについて: 付録欄“Qualification Test Results”をご参照ください。

サンプル出荷予定日: 対象外

製品/材料の化学物質データ: 弊社営業へお申し付けください。

この通知に関するお問い合わせは、弊社営業、特約店までお願い致します。

対象製品リスト

RH850/F1 series : Automotive Grade Level Grade1

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R7F7016234AFP-C#BA3	R7F7010023AFP-C#BA4	R7F7010423AFP-C#KA2	R7F701A303AFP-C#TA2
R7F7016234AFP-C#KA3	R7F7010023AFP-C#KA4	R7F7010423AFP-C#KAT	R7F701A313AFP-C#BA4
R7F7016343AFP-C#BA1	R7F7010024AFP-C#BA4	R7F7010423AFP-C#TA2	R7F701A313AFP-C#KA4
R7F7016343AFP-C#KA1	R7F7010024AFP-C#KA4	R7F7010423AFP-C#TAT	R7F701A314AFP-C#BA4
R7F7016363AFP-C#BA1	R7F7010033AFP-C#BA2	R7F7010424AFP-C#BA2	R7F701A314AFP-C#KA4
R7F7016363AFP-C#KA1	R7F7010033AFP-C#KA2	R7F7010424AFP-C#BAT	R7F701A323AFP-C#BA4

R7F7016443AFP-C#BA1	R7F7010034AFP-C#BA2	R7F7010424AFP-C#KA2	R7F701A323AFP-C#KA4
R7F7016443AFP-C#KA1	R7F7010034AFP-C#KA2	R7F7010424AFP-C#KAT	R7F701A324AFP-C#BA4
R7F7016453AFP-C#BA1	R7F7010063AFP-C#BA4	R7F7010424AFP-C#TA2	R7F701A324AFP-C#KA4
R7F7016453AFP-C#KA1	R7F7010063AFP-C#KA4	R7F7010424AFP-C#TAT	R7F701A333AFP-C#BA4
R7F7016463AFP-C#BA1	R7F7010064AFP-C#BA4	R7F7010433AFP-C#BA2	R7F701A333AFP-C#KA4
R7F7016463AFP-C#KA1	R7F7010064AFP-C#KA4	R7F7010433AFP-C#KA2	R7F701A334AFP-C#BA4
R7F7016473AFP-C#BA1	R7F7010073AFP-C#BA4	R7F7010433AFP-C#TA2	R7F701A334AFP-C#KA4
R7F7016473AFP-C#KA1	R7F7010073AFP-C#KA4	R7F7010434AFP-C#BA2	R7F701A363AFP-C#BA4
R7F7016483AFP-C#BA1	R7F7010073AFP-C#TA4	R7F7010434AFP-C#KA2	R7F701A363AFP-C#KA4
R7F7016483AFP-C#KA1	R7F7010074AFP-C#BA4	R7F7010434AFP-C#TA2	R7F701A364AFP-C#BA4
R7F7016483AFP-C#TA1	R7F7010074AFP-C#KA4	R7F7010443AFP-C#BA2	R7F701A364AFP-C#KA4
R7F7016493AFP-C#BA1	R7F7010074AFP-C#TA4	R7F7010443AFP-C#KA2	R7F701A373AFP-C#BA4
R7F7016493AFP-C#KA1	R7F7010083AFP-C#BA4	R7F7010444AFP-C#BA2	R7F701A373AFP-C#KA4
R7F7016493AFP-C#TA1	R7F7010083AFP-C#KA4	R7F7010444AFP-C#KA2	R7F701A373AFP-C#TA4
R7F7016843AFP-C#BA1	R7F7010084AFP-C#BA4	R7F7010453AFP-C#BA2	R7F701A374AFP-C#BA4
R7F7016843AFP-C#KA1	R7F7010084AFP-C#KA4	R7F7010453AFP-C#KA2	R7F701A374AFP-C#KA4
R7F7016844AFP-C#BA1	R7F7010093AFP-C#BA4	R7F7010454AFP-C#BA2	R7F701A374AFP-C#TA4
R7F7016844AFP-C#KA1	R7F7010093AFP-C#KA4	R7F7010454AFP-C#KA2	R7F701A383AFP-C#BA4
R7F701684FAFP-C#BA1	R7F7010094AFP-C#BA4	R7F7010454AFP-C#KAT	R7F701A383AFP-C#KA4
R7F701684FAFP-C#KA1	R7F7010094AFP-C#KA4	R7F7010463AFP-C#BA4	R7F701A383AFP-C#TA4
R7F7016853AFP-C#BA1	R7F7010103AFP-C#BA4	R7F7010463AFP-C#KA4	R7F701A384AFP-C#BA4
R7F7016853AFP-C#KA1	R7F7010103AFP-C#KA4	R7F7010464AFP-C#BA4	R7F701A384AFP-C#KA4
R7F7016854AFP-C#BA1	R7F7010104AFP-C#BA4	R7F7010464AFP-C#KA4	R7F701A384AFP-C#TA4
R7F7016854AFP-C#KA1	R7F7010104AFP-C#KA4	R7F7010473AFP-C#BA4	R7F701A393AFP-C#BA4
R7F701685FAFP-C#BA1	R7F7010113AFP-C#BA4	R7F7010473AFP-C#KA4	R7F701A393AFP-C#KA4
R7F701685FAFP-C#KA1	R7F7010113AFP-C#BA8	R7F7010474AFP-C#BA4	R7F701A394AFP-C#BA4
R7F7016863AFP-C#BA1	R7F7010113AFP-C#KA4	R7F7010474AFP-C#KA4	R7F701A394AFP-C#KA4
R7F7016863AFP-C#KA1	R7F7010113AFP-C#KA8	R7F7010483AFP-C#BA4	R7F701A403AFP-C#BA4
R7F7016864AFP-C#BA1	R7F7010113AFP-C#TA4	R7F7010483AFP-C#KA4	R7F701A403AFP-C#KA4
R7F7016864AFP-C#KA1	R7F7010113AFP-C#TA8	R7F7010484AFP-C#BA4	R7F701A403AFP-C#TA4
R7F701686FAFP-C#BA1	R7F7010114AFP-C#BA4	R7F7010484AFP-C#KA4	R7F701A404AFP-C#BA4
R7F701686FAFP-C#KA1	R7F7010114AFP-C#KA4	R7F7010493AFP-C#BA4	R7F701A404AFP-C#KA4
R7F7016873AFP-C#BA1	R7F7010114AFP-C#TA4	R7F7010493AFP-C#KA4	R7F701A404AFP-C#TA4
R7F7016873AFP-C#KA1	R7F7010123AFP-C#BA4	R7F7010494AFP-C#BA4	R7F701A413AFP-C#BA4
R7F7016873AFP-C#TA1	R7F7010123AFP-C#BA8	R7F7010494AFP-C#KA4	R7F701A413AFP-C#KA4
R7F7016874AFP-C#BA1	R7F7010123AFP-C#KA4	R7F7010503AFP-C#BA4	R7F701A413AFP-C#TA4
R7F7016874AFP-C#KA1	R7F7010123AFP-C#KA8	R7F7010503AFP-C#KA4	R7F701A414AFP-C#BA4
R7F7016874AFP-C#TA1	R7F7010123AFP-C#TA4	R7F7010503AFP-C#TA4	R7F701A414AFP-C#KA4
R7F701687FAFP-C#BA1	R7F7010123AFP-C#TA8	R7F7010504AFP-C#BA4	R7F701A414AFP-C#TA4
R7F701687FAFP-C#KA1	R7F7010124AFP-C#BA4	R7F7010504AFP-C#KA4	R7F701A474AFP-C#BA4
R7F701687FAFP-C#TA1	R7F7010124AFP-C#BAT	R7F7010504AFP-C#TA4	
R7F7016883AFP-C#BA1	R7F7010124AFP-C#KA4	R7F7010513AFP-C#BA4	

RH850/D1 series : Automotive Grade Level Grade1

R7F701442EAFB-C#BA0	R7F701400E***AFB-C#BA1	R7F701403E***AFB-C#BA1	R7F701421E***AFB-C#KA1
R7F701442EAFB-C#KA0	R7F701400E***AFB-C#KA1	R7F701403E***AFB-C#KA1	R7F701421E***AFB-C#KA9
R7F701442EAFB-C#TA0	R7F701401EA00AFB-C#KA1	R7F701403E***AFB-C#TA1	R7F701422EAFB-C#BA1
R7F701442E***AFB-C#BA0	R7F701401EA01AFB-C#KA1	R7F701414EA03AFB-C#KA1	R7F701422EAFB-C#KA1
R7F701442E***AFB-C#KA0	R7F701401EA10AFB-C#KA1	R7F701414EA04AFB-C#KA1	R7F701422EAFB-C#KA9
R7F701442E***AFB-C#TA0	R7F701401EA24AFB-C#KA1	R7F701414EA05AFB-C#KA1	R7F701422E***AFB-C#BA1
R7F701462EAFB-C#BA0	R7F701401EA31AFB-C#KA1	R7F701414EA13AFB-C#KA1	R7F701422E***AFB-C#KA1
R7F701462EAFB-C#KA0	R7F701401EA46AFB-C#KA1	R7F701414EA15AFB-C#KA1	R7F701422E***AFB-C#KA9
R7F701462EAFB-C#KA9	R7F701401EAFB-C#BA1	R7F701414EA16AFB-C#KA1	R7F701423EAFB-C#BA1
R7F701462EAFB-C#TA0	R7F701401EAFB-C#KA1	R7F701414EA54AFB-C#KA1	R7F701423EAFB-C#KA1
R7F701462EAFB-C#TA9	R7F701401E***AFB-C#BA1	R7F701414EAFB-C#BA1	R7F701423EAFB-C#KA9
R7F701462E***AFB-C#BA0	R7F701401E***AFB-C#KA1	R7F701414EAFB-C#KA1	R7F701423EAFB-C#TA1
R7F701462E***AFB-C#KA0	R7F701402EA02AFB-C#KA1	R7F701414E***AFB-C#BA1	R7F701423EAFB-C#TA9
R7F701462E***AFB-C#KA9	R7F701402EA12AFB-C#KA1	R7F701414E***AFB-C#KA1	R7F701423E***AFB-C#BA1
R7F701462E***AFB-C#TA0	R7F701402EA14AFB-C#KA1	R7F701420EAFB-C#BA1	R7F701423E***AFB-C#KA1
R7F701462E***AFB-C#TA9	R7F701402EA55AFB-C#KA1	R7F701420EAFB-C#KA1	R7F701423E***AFB-C#KA9
R7F701400EA21AFB-C#KA1	R7F701402EA56AFB-C#KA1	R7F701420EAFB-C#KA9	R7F701423E***AFB-C#TA1
R7F701400EA22AFB-C#KA1	R7F701402EAFB-C#BA1	R7F701420E***AFB-C#BA1	R7F701423E***AFB-C#TA9
R7F701400EA23AFB-C#KA1	R7F701402EAFB-C#KA1	R7F701420E***AFB-C#KA1	R7F701434EAFB-C#BA1
R7F701400EA29AFB-C#KA1	R7F701402E***AFB-C#BA1	R7F701420E***AFB-C#KA9	R7F701434EAFB-C#KA1
R7F701400EA30AFB-C#KA1	R7F701402E***AFB-C#KA1	R7F701421EAFB-C#BA1	R7F701434E***AFB-C#BA1
R7F701400EA49AFB-C#KA1	R7F701403EAFB-C#BA1	R7F701421EAFB-C#KA1	R7F701434E***AFB-C#KA1
R7F701400EAFB-C#BA1	R7F701403EAFB-C#KA1	R7F701421EAFB-C#KA9	
R7F701400EAFB-C#KA1	R7F701403EAFB-C#TA1	R7F701421E***AFB-C#BA1	

*** means ROM code

RH850/R1 series : Automotive Grade Level Grade1

R7F7010603AFP-C#BA4	R7F7010643AFP-C#KA2	R7F7010673AFP-C#KA4	R7F701A023AFP-C#TA8
R7F7010603AFP-C#KA4	R7F7010643AFP-C#KA8	R7F7010693AFP-C#BA2	R7F701A033AFP-C#BA8
R7F7010603AFP-C#TA4	R7F7010643AFP-C#TA2	R7F7010693AFP-C#KA2	R7F701A033AFP-C#KA8
R7F7010623AFP-C#BA4	R7F7010643AFP-C#TA8	R7F7010713AFP-C#BA4	R7F701A033AFP-C#TA8
R7F7010623AFP-C#KA4	R7F7010653AFP-C#BA4	R7F7010713AFP-C#KA4	R7F701A083AFP-C#BA4
R7F7010623AFP-C#TA4	R7F7010653AFP-C#KA4	R7F701A023AFP-C#BA8	R7F701A083AFP-C#KA4
R7F7010643AFP-C#BA2	R7F7010673AFP-C#BA4	R7F701A023AFP-C#KA8	R7F701A223AFP-C#BA4

RH850/E1 series : Automotive Grade Level Grade1

R7F701203EAFP#BC0	R7F701201EAFA#BC1	R7F701201EA01AFA#BC0	R7F701205EAFA#BC0
R7F701201EAFP#BC0	R7F701201EAFA#HC0	R7F701201EA02AFA#BC0	R7F701205EAFA#BC1
R7F701201EAFA#BC0	R7F701201EA01AFP#BC0	R7F701205EAFP#BC0	

RH850/C1 series : Automotive Grade Level Grade1

R7F701271EAFP#BC0	R7F701278EAFP#BC0	R7F701278EAFP#BC6	R7F701281EAFP#BC4
R7F701271EAFP#BC4	R7F701278EAFP#BC4	R7F701281EAFP#BC0	R7F701282EAFP#BC0
R7F701282EAFP#BC4			

RH850/P1 series : Automotive Grade Level Grade1

R7F701304EAFP-C#BA1	R7F701304EAFP-C#KA1	R7F701312EAFP-C#BA1	R7F701312EAFP-C#KA1
R7F701320EAFP-C#BA1	R7F701320EAFP-C#KA1	R7F701364EAFP-C#BA1	R7F701364EAFP-C#KA1
R7F701310EAFP-C#BA1	R7F701310EAFP-C#BA4	R7F701310EAFP-C#KA1	R7F701310EAFP-C#KA4
R7F701310E***AFP-C#KA4	R7F701310EY01AFP-C#KA4	R7F701318EAFP-C#BA1	R7F701318EAFP-C#KA1
R7F701318E***AFP-C#KA1	R7F701318EY03AFP-C#KA1	R7F701318EY04AFP-C#KA1	R7F701362EAFP-C#BA1
R7F701362EAFP-C#KA1	R7F701362E***AFP-C#KA1	R7F701362EY05AFP-C#KA1	R7F701362EY06AFP-C#KA1
R7F701314EAFP-C#BA1	R7F701314EAFP-C#KA1	R7F701322EAFP-C#BA1	R7F701322EAFP-C#KA1
R7F701366EAFP-C#BA1	R7F701366EAFP-C#KA1	R7F701305EAFP-C#BA1	R7F701305EAFP-C#KA1
R7F701313EAFP-C#BA1	R7F701313EAFP-C#KA1	R7F701321EAFP-C#BA1	R7F701321EAFP-C#KA1
R7F701365EAFP-C#BA1	R7F701365EAFP-C#KA1	R7F701311EAFP-C#BA1	R7F701311EAFP-C#KA1
R7F701319EAFP-C#BA1	R7F701319EAFP-C#KA1	R7F701363EAFP-C#BA1	R7F701363EAFP-C#BAT
R7F701363EAFP-C#KA1	R7F701363EAFP-C#KAT	R7F701315EAFP-C#BA1	R7F701315EAFP-C#KA1
R7F701323EAFP-C#BA1	R7F701323EAFP-C#KA1	R7F701367EAFP-C#BA1	R7F701367EAFP-C#KA1
R7F701376EAFP-C#BA2	R7F701376EAFP-C#KA2	R7F701382EAFP-C#BA2	R7F701382EAFP-C#KA2
R7F701378EAFP-C#BA2	R7F701378EAFP-C#KA2	R7F701378E***AFP-C#KA2	R7F701378EY02AFP-C#KA2
R7F701384EAFP-C#BA2	R7F701384EAFP-C#KA2	R7F701380EAFP-C#BA2	R7F701380EAFP-C#KA2
R7F701386EAFP-C#BA2	R7F701386EAFP-C#KA2	R7F701375EAFP-C#BA2	R7F701375EAFP-C#KA2
R7F701381EAFP-C#BA2	R7F701381EAFP-C#KA2	R7F701377EAFP-C#BA2	R7F701377EAFP-C#KA2
R7F701383EAFP-C#BA2	R7F701383EAFP-C#KA2	R7F701379EAFP-C#BA2	
R7F701385EAFP-C#BA2	R7F701385EAFP-C#KA2	R7F701379EAFP-C#KA2	

*** means ROM code

RH850/P1 series : Automotive Grade Level Grade0

R7F701391EAFP-C#BA1	R7F701391EAFP-C#HA1	R7F701391EAFP-C#RA1	R7F701390EAFP-C#BA1
R7F701390EAFP-C#HA1	R7F701390EAFP-C#RA1	R7F701389EAFP-C#BA1	R7F701389EAFP-C#HA1
R7F701389EAFP-C#RA1	R7F701388EAFP-C#BA1	R7F701388EAFP-C#HA1	R7F701374AEAFP-C#BA1
R7F701374AEAFP-C#BAT	R7F701374AEAFP-C#BAU	R7F701374AEAFP-C#HA1	R7F701312GAFA-C#KA1
R7F701304GAFA-C#BA1	R7F701304GAFA-C#KA1	R7F701312GAFA-C#BA1	R7F701364GAFA-C#KA1
R7F701320GAFA-C#BA1	R7F701320GAFA-C#KA1	R7F701364GAFA-C#BA1	R7F701310GAFA-C#KA4
R7F701310GAFA-C#BA1	R7F701310GAFA-C#BA4	R7F701310GAFA-C#KA1	R7F701362GAFA-C#KA1
R7F701318GAFA-C#BA1	R7F701318GAFA-C#KA1	R7F701362GAFA-C#BA1	R7F701322GAFA-C#KA1
R7F701314GAFA-C#BA1	R7F701314GAFA-C#KA1	R7F701322GAFA-C#BA1	R7F701376GAFA-C#KA2
R7F701366GAFA-C#BA1	R7F701366GAFA-C#KA1	R7F701376GAFA-C#BA2	R7F701378GAFA-C#KA2
R7F701382GAFA-C#BA2	R7F701382GAFA-C#KA2	R7F701378GAFA-C#BA2	
R7F701384GAFA-C#BA2	R7F701384GAFA-C#KA2	R7F701380GAFA-C#BA2	
R7F701386GAFA-C#BA2	R7F701386GAFA-C#KA2	R7F701380GAFA-C#KA2	

RL78/F12 series : Automotive Grade Level Grade3, Grade1

48pin, Grade3	64pin, Grade3	48pin, Grade1	64pin, Grade1
R5F109GACJFB#10	R5F109LACJFB#10	R5F109GACKFB#10	R5F109LACKFB#10
R5F109GACJFB#10G	R5F109LACJFB#10G	R5F109GACKFB#10G	R5F109LACKFB#10G
R5F109GACJFB#10Q	R5F109LACJFB#10Q	R5F109GACKFB#10Q	R5F109LACKFB#10Q
R5F109GACJFB#30	R5F109LACJFB#30	R5F109GACKFB#30	R5F109LACKFB#30
R5F109GACJFB#30G	R5F109LACJFB#30G	R5F109GACKFB#30G	R5F109LACKFB#30G
R5F109GACJFB#30Q	R5F109LACJFB#30Q	R5F109GACKFB#30Q	R5F109LACKFB#30Q
R5F109GACJFB#50	R5F109LACJFB#50	R5F109GACKFB#50	R5F109LACKFB#50
R5F109GACJFB#50G	R5F109LACJFB#50G	R5F109GACKFB#50G	R5F109LACKFB#50G
R5F109GACJFB#50Q	R5F109LACJFB#50Q	R5F109GACKFB#50Q	R5F109LACKFB#50Q
R5F109GBCJFB#10	R5F109LBCJFB#10	R5F109GBCKFB#10	R5F109LBCKFB#10
R5F109GBCJFB#10G	R5F109LBCJFB#10G	R5F109GBCKFB#10G	R5F109LBCKFB#10G
R5F109GBCJFB#10Q	R5F109LBCJFB#10Q	R5F109GBCKFB#10Q	R5F109LBCKFB#10Q
R5F109GBCJFB#30	R5F109LBCJFB#30	R5F109GBCKFB#30	R5F109LBCKFB#30
R5F109GBCJFB#30G	R5F109LBCJFB#30G	R5F109GBCKFB#30G	R5F109LBCKFB#30G
R5F109GBCJFB#30Q	R5F109LBCJFB#30Q	R5F109GBCKFB#30Q	R5F109LBCKFB#30Q
R5F109GBCJFB#50	R5F109LBCJFB#50	R5F109GBCKFB#50	R5F109LBCKFB#50
R5F109GBCJFB#50G	R5F109LBCJFB#50G	R5F109GBCKFB#50G	R5F109LBCKFB#50G
R5F109GBCJFB#50Q	R5F109LBCJFB#50Q	R5F109GBCKFB#50Q	R5F109LBCKFB#50Q
R5F109GCCJFB#10	R5F109LCCJFB#10	R5F109GCCKFB#10	R5F109LCKKFB#10
R5F109GCCJFB#10G	R5F109LCCJFB#10G	R5F109GCCKFB#10G	R5F109LCKKFB#10G
R5F109GCCJFB#10Q	R5F109LCCJFB#10Q	R5F109GCCKFB#10Q	R5F109LCKKFB#10Q
R5F109GCCJFB#30	R5F109LCCJFB#30	R5F109GCCKFB#30	R5F109LCKKFB#30
R5F109GCCJFB#30G	R5F109LCCJFB#30G	R5F109GCCKFB#30G	R5F109LCKKFB#30G
R5F109GCCJFB#30Q	R5F109LCCJFB#30Q	R5F109GCCKFB#30Q	R5F109LCKKFB#30Q
R5F109GCCJFB#50	R5F109LCCJFB#50	R5F109GCCKFB#50	R5F109LCKKFB#50
R5F109GCCJFB#50G	R5F109LCCJFB#50G	R5F109GCCKFB#50G	R5F109LCKKFB#50G
R5F109GCCJFB#50Q	R5F109LCCJFB#50Q	R5F109GCCKFB#50Q	R5F109LCKKFB#50Q
R5F109GDCJFB#10	R5F109LDCJFB#10	R5F109GDCKFB#10	R5F109LDCKFB#10
R5F109GDCJFB#10G	R5F109LDCJFB#10G	R5F109GDCKFB#10G	R5F109LDCKFB#10G
R5F109GDCJFB#10Q	R5F109LDCJFB#10Q	R5F109GDCKFB#10Q	R5F109LDCKFB#10Q
R5F109GDCJFB#30	R5F109LDCJFB#30	R5F109GDCKFB#30	R5F109LDCKFB#30
R5F109GDCJFB#30G	R5F109LDCJFB#30G	R5F109GDCKFB#30G	R5F109LDCKFB#30G
R5F109GDCJFB#30Q	R5F109LDCJFB#30Q	R5F109GDCKFB#30Q	R5F109LDCKFB#30Q
R5F109GDCJFB#50	R5F109LDCJFB#50	R5F109GDCKFB#50	R5F109LDCKFB#50
R5F109GDCJFB#50G	R5F109LDCJFB#50G	R5F109GDCKFB#50G	R5F109LDCKFB#50G
R5F109GDCJFB#50Q	R5F109LDCJFB#50Q	R5F109GDCKFB#50Q	R5F109LDCKFB#50Q
R5F109GECJFB#10	R5F109LECJFB#10	R5F109GECKFB#10	R5F109LECKFB#10
R5F109GECJFB#10G	R5F109LECJFB#10G	R5F109GECKFB#10G	R5F109LECKFB#10G
R5F109GECJFB#10Q	R5F109LECJFB#10Q	R5F109GECKFB#10Q	R5F109LECKFB#10Q
R5F109GECJFB#30	R5F109LECJFB#30	R5F109GECKFB#30	R5F109LECKFB#30
R5F109GECJFB#30G	R5F109LECJFB#30G	R5F109GECKFB#30G	R5F109LECKFB#30G
R5F109GECJFB#30Q	R5F109LECJFB#30Q	R5F109GECKFB#30Q	R5F109LECKFB#30Q
R5F109GECJFB#50	R5F109LECJFB#50	R5F109GECKFB#50	R5F109LECKFB#50
R5F109GECJFB#50G	R5F109LECJFB#50G	R5F109GECKFB#50G	R5F109LECKFB#50G
R5F109GECJFB#50Q	R5F109LECJFB#50Q	R5F109GECKFB#50Q	R5F109LECKFB#50Q

RL78/F12 series : Automotive Grade Level Grade3, Grade1

48pin, Grade3	64pin, Grade3	48pin, Grade1	64pin, Grade1
R5F109GACJ***FB10	R5F109LACJ***FB10	R5F109GACK***FB10	R5F109LACK***FB10
R5F109GACJ***FB10G	R5F109LACJ***FB10G	R5F109GACK***FB10G	R5F109LACK***FB10G
R5F109GACJ***FB10Q	R5F109LACJ***FB10Q	R5F109GACK***FB10Q	R5F109LACK***FB10Q
R5F109GACJ***FB30	R5F109LACJ***FB30	R5F109GACK***FB30	R5F109LACK***FB30
R5F109GACJ***FB30G	R5F109LACJ***FB30G	R5F109GACK***FB30G	R5F109LACK***FB30G
R5F109GACJ***FB30Q	R5F109LACJ***FB30Q	R5F109GACK***FB30Q	R5F109LACK***FB30Q
R5F109GACJ***FB50	R5F109LACJ***FB50	R5F109GACK***FB50	R5F109LACK***FB50
R5F109GACJ***FB50G	R5F109LACJ***FB50G	R5F109GACK***FB50G	R5F109LACK***FB50G
R5F109GACJ***FB50Q	R5F109LACJ***FB50Q	R5F109GACK***FB50Q	R5F109LACK***FB50Q
R5F109GBCJ***FB10	R5F109LBCJ***FB10	R5F109GBCK***FB10	R5F109LBCK***FB10
R5F109GBCJ***FB10G	R5F109LBCJ***FB10G	R5F109GBCK***FB10G	R5F109LBCK***FB10G
R5F109GBCJ***FB10Q	R5F109LBCJ***FB10Q	R5F109GBCK***FB10Q	R5F109LBCK***FB10Q
R5F109GBCJ***FB30	R5F109LBCJ***FB30	R5F109GBCK***FB30	R5F109LBCK***FB30
R5F109GBCJ***FB30G	R5F109LBCJ***FB30G	R5F109GBCK***FB30G	R5F109LBCK***FB30G
R5F109GBCJ***FB30Q	R5F109LBCJ***FB30Q	R5F109GBCK***FB30Q	R5F109LBCK***FB30Q
R5F109GBCJ***FB50	R5F109LBCJ***FB50	R5F109GBCK***FB50	R5F109LBCK***FB50
R5F109GBCJ***FB50G	R5F109LBCJ***FB50G	R5F109GBCK***FB50G	R5F109LBCK***FB50G
R5F109GBCJ***FB50Q	R5F109LBCJ***FB50Q	R5F109GBCK***FB50Q	R5F109LBCK***FB50Q
R5F109GCCJ***FB10	R5F109LCCJ***FB10	R5F109GCCK***FB10	R5F109LCCK***FB10
R5F109GCCJ***FB10G	R5F109LCCJ***FB10G	R5F109GCCK***FB10G	R5F109LCCK***FB10G
R5F109GCCJ***FB10Q	R5F109LCCJ***FB10Q	R5F109GCCK***FB10Q	R5F109LCCK***FB10Q
R5F109GCCJ***FB30	R5F109LCCJ***FB30	R5F109GCCK***FB30	R5F109LCCK***FB30
R5F109GCCJ***FB30G	R5F109LCCJ***FB30G	R5F109GCCK***FB30G	R5F109LCCK***FB30G
R5F109GCCJ***FB30Q	R5F109LCCJ***FB30Q	R5F109GCCK***FB30Q	R5F109LCCK***FB30Q
R5F109GCCJ***FB50	R5F109LCCJ***FB50	R5F109GCCK***FB50	R5F109LCCK***FB50
R5F109GCCJ***FB50G	R5F109LCCJ***FB50G	R5F109GCCK***FB50G	R5F109LCCK***FB50G
R5F109GCCJ***FB50Q	R5F109LCCJ***FB50Q	R5F109GCCK***FB50Q	R5F109LCCK***FB50Q
R5F109GDCJ***FB10	R5F109LDCJ***FB10	R5F109GDCK***FB10	R5F109LDCK***FB10
R5F109GDCJ***FB10G	R5F109LDCJ***FB10G	R5F109GDCK***FB10G	R5F109LDCK***FB10G
R5F109GDCJ***FB10Q	R5F109LDCJ***FB10Q	R5F109GDCK***FB10Q	R5F109LDCK***FB10Q
R5F109GDCJ***FB30	R5F109LDCJ***FB30	R5F109GDCK***FB30	R5F109LDCK***FB30
R5F109GDCJ***FB30G	R5F109LDCJ***FB30G	R5F109GDCK***FB30G	R5F109LDCK***FB30G
R5F109GDCJ***FB30Q	R5F109LDCJ***FB30Q	R5F109GDCK***FB30Q	R5F109LDCK***FB30Q
R5F109GDCJ***FB50	R5F109LDCJ***FB50	R5F109GDCK***FB50	R5F109LDCK***FB50
R5F109GDCJ***FB50G	R5F109LDCJ***FB50G	R5F109GDCK***FB50G	R5F109LDCK***FB50G
R5F109GDCJ***FB50Q	R5F109LDCJ***FB50Q	R5F109GDCK***FB50Q	R5F109LDCK***FB50Q
R5F109GECJ***FB10	R5F109LECJ***FB10	R5F109GECK***FB10	R5F109LECK***FB10
R5F109GECJ***FB10G	R5F109LECJ***FB10G	R5F109GECK***FB10G	R5F109LECK***FB10G
R5F109GECJ***FB10Q	R5F109LECJ***FB10Q	R5F109GECK***FB10Q	R5F109LECK***FB10Q
R5F109GECJ***FB30	R5F109LECJ***FB30	R5F109GECK***FB30	R5F109LECK***FB30
R5F109GECJ***FB30G	R5F109LECJ***FB30G	R5F109GECK***FB30G	R5F109LECK***FB30G
R5F109GECJ***FB30Q	R5F109LECJ***FB30Q	R5F109GECK***FB30Q	R5F109LECK***FB30Q
R5F109GECJ***FB50	R5F109LECJ***FB50	R5F109GECK***FB50	R5F109LECK***FB50
R5F109GECJ***FB50G	R5F109LECJ***FB50G	R5F109GECK***FB50G	R5F109LECK***FB50G
R5F109GECJ***FB50Q	R5F109LECJ***FB50Q	R5F109GECK***FB50Q	R5F109LECK***FB50Q

*** means ROM code

RL78/F13(LIN) series : Automotive Grade Level Grade2

48pin, Grade2	64pin, Grade2	80pin, Grade2	
R5F10AGACLFB#15	R5F10ALCCLFB#15	R5F10AMECLFB#15	
R5F10AGACLFB#15Q	R5F10ALCCLFB#15Q	R5F10AMECLFB#15Q	
R5F10AGACLFB#35	R5F10ALCCLFB#35	R5F10AMECLFB#35	
R5F10AGACLFB#35Q	R5F10ALCCLFB#35Q	R5F10AMECLFB#35Q	
R5F10AGACLFB#55	R5F10ALCCLFB#55	R5F10AMECLFB#55	
R5F10AGACLFB#55Q	R5F10ALCCLFB#55Q	R5F10AMECLFB#55Q	
R5F10AGCCLFB#15	R5F10ALDCLFB#15	R5F10AMFCLFB#15	
R5F10AGCCLFB#15Q	R5F10ALDCLFB#15Q	R5F10AMFCLFB#15Q	
R5F10AGCCLFB#35	R5F10ALDCLFB#35	R5F10AMFCLFB#35	
R5F10AGCCLFB#35Q	R5F10ALDCLFB#35Q	R5F10AMFCLFB#35Q	
R5F10AGCCLFB#55	R5F10ALDCLFB#55	R5F10AMFCLFB#55	
R5F10AGCCLFB#55Q	R5F10ALDCLFB#55Q	R5F10AMFCLFB#55Q	
R5F10AGDCLFB#15	R5F10ALECLFB#15	R5F10AMGCLFB#15	
R5F10AGDCLFB#15Q	R5F10ALECLFB#15Q	R5F10AMGCLFB#15Q	
R5F10AGDCLFB#35	R5F10ALECLFB#35	R5F10AMGCLFB#35	
R5F10AGDCLFB#35Q	R5F10ALECLFB#35Q	R5F10AMGCLFB#35Q	
R5F10AGDCLFB#55	R5F10ALECLFB#55	R5F10AMGCLFB#55	
R5F10AGDCLFB#55Q	R5F10ALECLFB#55Q	R5F10AMGCLFB#55Q	
R5F10AGECLFB#15	R5F10ALFCLFB#15		
R5F10AGECLFB#15Q	R5F10ALFCLFB#15Q		
R5F10AGECLFB#35	R5F10ALFCLFB#35		
R5F10AGECLFB#35Q	R5F10ALFCLFB#35Q		
R5F10AGECLFB#55	R5F10ALFCLFB#55		
R5F10AGECLFB#55Q	R5F10ALFCLFB#55Q		
R5F10AGFCLFB#15	R5F10ALGCLFB#15		
R5F10AGFCLFB#15Q	R5F10ALGCLFB#15Q		
R5F10AGFCLFB#35	R5F10ALGCLFB#35		
R5F10AGFCLFB#35Q	R5F10ALGCLFB#35Q		
R5F10AGFCLFB#55	R5F10ALGCLFB#55		
R5F10AGFCLFB#55Q	R5F10ALGCLFB#55Q		
R5F10AGGCLFB#15			
R5F10AGGCLFB#15Q			
R5F10AGGCLFB#35			
R5F10AGGCLFB#35Q			
R5F10AGGCLFB#55			
R5F10AGGCLFB#55Q			

RL78/F13(LIN) series : Automotive Grade Level Grade2

48pin, Grade2	64pin, Grade2	80pin, Grade2	
R5F10AGACL***FB15	R5F10ALCCL***FB15	R5F10AMECL***FB15	
R5F10AGACL***FB15Q	R5F10ALCCL***FB15Q	R5F10AMECL***FB15Q	
R5F10AGACL***FB35	R5F10ALCCL***FB35	R5F10AMECL***FB35	
R5F10AGACL***FB35Q	R5F10ALCCL***FB35Q	R5F10AMECL***FB35Q	
R5F10AGACL***FB55	R5F10ALCCL***FB55	R5F10AMECL***FB55	
R5F10AGACL***FB55Q	R5F10ALCCL***FB55Q	R5F10AMECL***FB55Q	
R5F10AGCCL***FB15	R5F10ALDCL***FB15	R5F10AMFCL***FB15	
R5F10AGCCL***FB15Q	R5F10ALDCL***FB15Q	R5F10AMFCL***FB15Q	
R5F10AGCCL***FB35	R5F10ALDCL***FB35	R5F10AMFCL***FB35	
R5F10AGCCL***FB35Q	R5F10ALDCL***FB35Q	R5F10AMFCL***FB35Q	
R5F10AGCCL***FB55	R5F10ALDCL***FB55	R5F10AMFCL***FB55	
R5F10AGCCL***FB55Q	R5F10ALDCL***FB55Q	R5F10AMFCL***FB55Q	
R5F10AGDCL***FB15	R5F10ALECL***FB15	R5F10AMGCL***FB15	
R5F10AGDCL***FB15Q	R5F10ALECL***FB15Q	R5F10AMGCL***FB15Q	
R5F10AGDCL***FB35	R5F10ALECL***FB35	R5F10AMGCL***FB35	
R5F10AGDCL***FB35Q	R5F10ALECL***FB35Q	R5F10AMGCL***FB35Q	
R5F10AGDCL***FB55	R5F10ALECL***FB55	R5F10AMGCL***FB55	
R5F10AGDCL***FB55Q	R5F10ALECL***FB55Q	R5F10AMGCL***FB55Q	
R5F10AGECL***FB15	R5F10ALFCL***FB15		
R5F10AGECL***FB15Q	R5F10ALFCL***FB15Q		
R5F10AGECL***FB35	R5F10ALFCL***FB35		
R5F10AGECL***FB35Q	R5F10ALFCL***FB35Q		
R5F10AGECL***FB55	R5F10ALFCL***FB55		
R5F10AGECL***FB55Q	R5F10ALFCL***FB55Q		
R5F10AGFCL***FB15	R5F10ALGCL***FB15		
R5F10AGFCL***FB15Q	R5F10ALGCL***FB15Q		
R5F10AGFCL***FB35	R5F10ALGCL***FB35		
R5F10AGFCL***FB35Q	R5F10ALGCL***FB35Q		
R5F10AGFCL***FB55	R5F10ALGCL***FB55		
R5F10AGFCL***FB55Q	R5F10ALGCL***FB55Q		
R5F10AGGCL***FB15			
R5F10AGGCL***FB15Q			
R5F10AGGCL***FB35			
R5F10AGGCL***FB35Q			
R5F10AGGCL***FB55			
R5F10AGGCL***FB55Q			

*** means ROM code

RL78/F13(LIN) series : Automotive Grade Level Grade1

48pin, Grade1	64pin, Grade1	80pin, Grade1	
R5F10AGACKFB#15	R5F10ALCCKFB#15	R5F10AMECKFB#15	
R5F10AGACKFB#15Q	R5F10ALCCKFB#15Q	R5F10AMECKFB#15Q	
R5F10AGACKFB#35	R5F10ALCCKFB#35	R5F10AMECKFB#35	
R5F10AGACKFB#35Q	R5F10ALCCKFB#35Q	R5F10AMECKFB#35Q	
R5F10AGACKFB#55	R5F10ALCCKFB#55	R5F10AMECKFB#55	
R5F10AGACKFB#55Q	R5F10ALCCKFB#55Q	R5F10AMECKFB#55Q	
R5F10AGCCKFB#15	R5F10ALDCKFB#15	R5F10AMFCKFB#15	
R5F10AGCCKFB#15Q	R5F10ALDCKFB#15Q	R5F10AMFCKFB#15Q	
R5F10AGCCKFB#35	R5F10ALDCKFB#35	R5F10AMFCKFB#35	
R5F10AGCCKFB#35Q	R5F10ALDCKFB#35Q	R5F10AMFCKFB#35Q	
R5F10AGCCKFB#55	R5F10ALDCKFB#55	R5F10AMFCKFB#55	
R5F10AGCCKFB#55Q	R5F10ALDCKFB#55Q	R5F10AMFCKFB#55Q	
R5F10AGDCKFB#15	R5F10ALECKFB#15	R5F10AMGCKFB#15	
R5F10AGDCKFB#15Q	R5F10ALECKFB#15Q	R5F10AMGCKFB#15Q	
R5F10AGDCKFB#35	R5F10ALECKFB#35	R5F10AMGCKFB#35	
R5F10AGDCKFB#35Q	R5F10ALECKFB#35Q	R5F10AMGCKFB#35Q	
R5F10AGDCKFB#55	R5F10ALECKFB#55	R5F10AMGCKFB#55	
R5F10AGDCKFB#55Q	R5F10ALECKFB#55Q	R5F10AMGCKFB#55Q	
R5F10AGECKFB#15	R5F10ALFCKFB#15		
R5F10AGECKFB#15Q	R5F10ALFCKFB#15Q		
R5F10AGECKFB#35	R5F10ALFCKFB#35		
R5F10AGECKFB#35Q	R5F10ALFCKFB#35Q		
R5F10AGECKFB#55	R5F10ALFCKFB#55		
R5F10AGECKFB#55Q	R5F10ALFCKFB#55Q		
R5F10AGFCKFB#15	R5F10ALGCKFB#15		
R5F10AGFCKFB#15Q	R5F10ALGCKFB#15Q		
R5F10AGFCKFB#35	R5F10ALGCKFB#35		
R5F10AGFCKFB#35Q	R5F10ALGCKFB#35Q		
R5F10AGFCKFB#55	R5F10ALGCKFB#55		
R5F10AGFCKFB#55Q	R5F10ALGCKFB#55Q		
R5F10AGGCKFB#15			
R5F10AGGCKFB#15Q			
R5F10AGGCKFB#35			
R5F10AGGCKFB#35Q			
R5F10AGGCKFB#55			
R5F10AGGCKFB#55Q			

RL78/F13(LIN) series : Automotive Grade Level Grade1

48pin, Grade1	64pin, Grade1	80pin, Grade1	
R5F10AGACK***FB15	R5F10ALCCK***FB15	R5F10AMECK***FB15	
R5F10AGACK***FB15Q	R5F10ALCCK***FB15Q	R5F10AMECK***FB15Q	
R5F10AGACK***FB35	R5F10ALCCK***FB35	R5F10AMECK***FB35	
R5F10AGACK***FB35Q	R5F10ALCCK***FB35Q	R5F10AMECK***FB35Q	
R5F10AGACK***FB55	R5F10ALCCK***FB55	R5F10AMECK***FB55	
R5F10AGACK***FB55Q	R5F10ALCCK***FB55Q	R5F10AMECK***FB55Q	
R5F10AGCCK***FB15	R5F10ALDCK***FB15	R5F10AMFCK***FB15	
R5F10AGCCK***FB15Q	R5F10ALDCK***FB15Q	R5F10AMFCK***FB15Q	
R5F10AGCCK***FB35	R5F10ALDCK***FB35	R5F10AMFCK***FB35	
R5F10AGCCK***FB35Q	R5F10ALDCK***FB35Q	R5F10AMFCK***FB35Q	
R5F10AGCCK***FB55	R5F10ALDCK***FB55	R5F10AMFCK***FB55	
R5F10AGCCK***FB55Q	R5F10ALDCK***FB55Q	R5F10AMFCK***FB55Q	
R5F10AGDCK***FB15	R5F10ALECK***FB15	R5F10AMGCK***FB15	
R5F10AGDCK***FB15Q	R5F10ALECK***FB15Q	R5F10AMGCK***FB15Q	
R5F10AGDCK***FB35	R5F10ALECK***FB35	R5F10AMGCK***FB35	
R5F10AGDCK***FB35Q	R5F10ALECK***FB35Q	R5F10AMGCK***FB35Q	
R5F10AGDCK***FB55	R5F10ALECK***FB55	R5F10AMGCK***FB55	
R5F10AGDCK***FB55Q	R5F10ALECK***FB55Q	R5F10AMGCK***FB55Q	
R5F10AGECK***FB15	R5F10ALFCK***FB15		
R5F10AGECK***FB15Q	R5F10ALFCK***FB15Q		
R5F10AGECK***FB35	R5F10ALFCK***FB35		
R5F10AGECK***FB35Q	R5F10ALFCK***FB35Q		
R5F10AGECK***FB55	R5F10ALFCK***FB55		
R5F10AGECK***FB55Q	R5F10ALFCK***FB55Q		
R5F10AGFCK***FB15	R5F10ALGCK***FB15		
R5F10AGFCK***FB15Q	R5F10ALGCK***FB15Q		
R5F10AGFCK***FB35	R5F10ALGCK***FB35		
R5F10AGFCK***FB35Q	R5F10ALGCK***FB35Q		
R5F10AGFCK***FB55	R5F10ALGCK***FB55		
R5F10AGFCK***FB55Q	R5F10ALGCK***FB55Q		
R5F10AGGCK***FB15			
R5F10AGGCK***FB15Q			
R5F10AGGCK***FB35			
R5F10AGGCK***FB35Q			
R5F10AGGCK***FB55			
R5F10AGGCK***FB55Q			

*** means ROM code

RL78/F13(LIN) series : Automotive Grade Level Grade0

48pin, Grade0	64pin, Grade0	80pin, Grade0	
R5F10AGACYFB#15	R5F10ALCCYFB#15	R5F10AMECYFB#15	
R5F10AGACYFB#15Q	R5F10ALCCYFB#15Q	R5F10AMECYFB#15Q	
R5F10AGACYFB#35	R5F10ALCCYFB#35	R5F10AMECYFB#35	
R5F10AGACYFB#35Q	R5F10ALCCYFB#35Q	R5F10AMECYFB#35Q	
R5F10AGACYFB#55	R5F10ALCCYFB#55	R5F10AMECYFB#55	
R5F10AGACYFB#55Q	R5F10ALCCYFB#55Q	R5F10AMECYFB#55Q	
R5F10AGCCYFB#15	R5F10ALDCYFB#15	R5F10AMFCYFB#15	
R5F10AGCCYFB#15Q	R5F10ALDCYFB#15Q	R5F10AMFCYFB#15Q	
R5F10AGCCYFB#35	R5F10ALDCYFB#35	R5F10AMFCYFB#35	
R5F10AGCCYFB#35Q	R5F10ALDCYFB#35Q	R5F10AMFCYFB#35Q	
R5F10AGCCYFB#55	R5F10ALDCYFB#55	R5F10AMFCYFB#55	
R5F10AGCCYFB#55Q	R5F10ALDCYFB#55Q	R5F10AMFCYFB#55Q	
R5F10AGDCYFB#15	R5F10ALECYFB#15	R5F10AMGCYFB#15	
R5F10AGDCYFB#15Q	R5F10ALECYFB#15Q	R5F10AMGCYFB#15Q	
R5F10AGDCYFB#35	R5F10ALECYFB#35	R5F10AMGCYFB#35	
R5F10AGDCYFB#35Q	R5F10ALECYFB#35Q	R5F10AMGCYFB#35Q	
R5F10AGDCYFB#55	R5F10ALECYFB#55	R5F10AMGCYFB#55	
R5F10AGDCYFB#55Q	R5F10ALECYFB#55Q	R5F10AMGCYFB#55Q	
R5F10AGECYFB#15	R5F10ALFCYFB#15		
R5F10AGECYFB#15Q	R5F10ALFCYFB#15Q		
R5F10AGECYFB#35	R5F10ALFCYFB#35		
R5F10AGECYFB#35Q	R5F10ALFCYFB#35Q		
R5F10AGECYFB#55	R5F10ALFCYFB#55		
R5F10AGECYFB#55Q	R5F10ALFCYFB#55Q		
R5F10AGFCYFB#15	R5F10ALGCYFB#15		
R5F10AGFCYFB#15Q	R5F10ALGCYFB#15Q		
R5F10AGFCYFB#35	R5F10ALGCYFB#35		
R5F10AGFCYFB#35Q	R5F10ALGCYFB#35Q		
R5F10AGFCYFB#55	R5F10ALGCYFB#55		
R5F10AGFCYFB#55Q	R5F10ALGCYFB#55Q		
R5F10AGGCYFB#15			
R5F10AGGCYFB#15Q			
R5F10AGGCYFB#35			
R5F10AGGCYFB#35Q			
R5F10AGGCYFB#55			
R5F10AGGCYFB#55Q			

RL78/F13(CAN/LIN) series : Automotive Grade Level Grade2

48pin, Grade2	64pin, Grade2	80pin, Grade2	
R5F10BGCCLFB#15	R5F10BLCCLFB#15	R5F10BMECLFB#15	
R5F10BGCCLFB#15Q	R5F10BLCCLFB#15Q	R5F10BMECLFB#15Q	
R5F10BGCCLFB#35	R5F10BLCCLFB#35	R5F10BMECLFB#35	
R5F10BGCCLFB#35Q	R5F10BLCCLFB#35Q	R5F10BMECLFB#35Q	
R5F10BGCCLFB#55	R5F10BLCCLFB#55	R5F10BMECLFB#55	
R5F10BGCCLFB#55Q	R5F10BLCCLFB#55Q	R5F10BMECLFB#55Q	
R5F10BGDCLFB#15	R5F10BLDCLFB#15	R5F10BMFCLFB#15	
R5F10BGDCLFB#15Q	R5F10BLDCLFB#15Q	R5F10BMFCLFB#15Q	
R5F10BGDCLFB#35	R5F10BLDCLFB#35	R5F10BMFCLFB#35	
R5F10BGDCLFB#35Q	R5F10BLDCLFB#35Q	R5F10BMFCLFB#35Q	
R5F10BGDCLFB#55	R5F10BLDCLFB#55	R5F10BMFCLFB#55	
R5F10BGDCLFB#55Q	R5F10BLDCLFB#55Q	R5F10BMFCLFB#55Q	
R5F10BGECLFB#15	R5F10BLECLFB#15	R5F10BMGCLFB#15	
R5F10BGECLFB#15Q	R5F10BLECLFB#15Q	R5F10BMGCLFB#15Q	
R5F10BGECLFB#35	R5F10BLECLFB#35	R5F10BMGCLFB#35	
R5F10BGECLFB#35Q	R5F10BLECLFB#35Q	R5F10BMGCLFB#35Q	
R5F10BGECLFB#55	R5F10BLECLFB#55	R5F10BMGCLFB#55	
R5F10BGECLFB#55Q	R5F10BLECLFB#55Q	R5F10BMGCLFB#55Q	
R5F10BGFCLFB#15	R5F10BLFCLFB#15		
R5F10BGFCLFB#15Q	R5F10BLFCLFB#15Q		
R5F10BGFCLFB#35	R5F10BLFCLFB#35		
R5F10BGFCLFB#35Q	R5F10BLFCLFB#35Q		
R5F10BGFCLFB#55	R5F10BLFCLFB#55		
R5F10BGFCLFB#55Q	R5F10BLFCLFB#55Q		
R5F10BGGCLFB#15	R5F10BLGCLFB#15		
R5F10BGGCLFB#15Q	R5F10BLGCLFB#15Q		
R5F10BGGCLFB#35	R5F10BLGCLFB#35		
R5F10BGGCLFB#35Q	R5F10BLGCLFB#35Q		
R5F10BGGCLFB#55	R5F10BLGCLFB#55		
R5F10BGGCLFB#55Q	R5F10BLGCLFB#55Q		

RL78/F13(CAN/LIN) series : Automotive Grade Level Grade2

48pin, Grade2	64pin, Grade2	80pin, Grade2	
R5F10BGCCL***FB15	R5F10BLCCL***FB15	R5F10BMECL***FB15	
R5F10BGCCL***FB15Q	R5F10BLCCL***FB15Q	R5F10BMECL***FB15Q	
R5F10BGCCL***FB35	R5F10BLCCL***FB35	R5F10BMECL***FB35	
R5F10BGCCL***FB35Q	R5F10BLCCL***FB35Q	R5F10BMECL***FB35Q	
R5F10BGCCL***FB55	R5F10BLCCL***FB55	R5F10BMECL***FB55	
R5F10BGCCL***FB55Q	R5F10BLCCL***FB55Q	R5F10BMECL***FB55Q	
R5F10BGDCL***FB15	R5F10BLDCL***FB15	R5F10BMFCL***FB15	
R5F10BGDCL***FB15Q	R5F10BLDCL***FB15Q	R5F10BMFCL***FB15Q	
R5F10BGDCL***FB35	R5F10BLDCL***FB35	R5F10BMFCL***FB35	
R5F10BGDCL***FB35Q	R5F10BLDCL***FB35Q	R5F10BMFCL***FB35Q	
R5F10BGDCL***FB55	R5F10BLDCL***FB55	R5F10BMFCL***FB55	
R5F10BGDCL***FB55Q	R5F10BLDCL***FB55Q	R5F10BMFCL***FB55Q	
R5F10BGECL***FB15	R5F10BLECL***FB15	R5F10BMGCL***FB15	
R5F10BGECL***FB15Q	R5F10BLECL***FB15Q	R5F10BMGCL***FB15Q	
R5F10BGECL***FB35	R5F10BLECL***FB35	R5F10BMGCL***FB35	
R5F10BGECL***FB35Q	R5F10BLECL***FB35Q	R5F10BMGCL***FB35Q	
R5F10BGECL***FB55	R5F10BLECL***FB55	R5F10BMGCL***FB55	
R5F10BGECL***FB55Q	R5F10BLECL***FB55Q	R5F10BMGCL***FB55Q	
R5F10BGFCL***FB15	R5F10BLFCL***FB15		
R5F10BGFCL***FB15Q	R5F10BLFCL***FB15Q		
R5F10BGFCL***FB35	R5F10BLFCL***FB35		
R5F10BGFCL***FB35Q	R5F10BLFCL***FB35Q		
R5F10BGFCL***FB55	R5F10BLFCL***FB55		
R5F10BGFCL***FB55Q	R5F10BLFCL***FB55Q		
R5F10BGGCL***FB15	R5F10BLGCL***FB15		
R5F10BGGCL***FB15Q	R5F10BLGCL***FB15Q		
R5F10BGGCL***FB35	R5F10BLGCL***FB35		
R5F10BGGCL***FB35Q	R5F10BLGCL***FB35Q		
R5F10BGGCL***FB55	R5F10BLGCL***FB55		
R5F10BGGCL***FB55Q	R5F10BLGCL***FB55Q		

*** means ROM code

RL78/F13(CAN/LIN) series : Automotive Grade Level Grade1

48pin, Grade1	64pin, Grade1	80pin, Grade1	
R5F10BGCKFB#15	R5F10BLCKFB#15	R5F10BMECKFB#15	
R5F10BGCKFB#15Q	R5F10BLCKFB#15Q	R5F10BMECKFB#15Q	
R5F10BGCKFB#35	R5F10BLCKFB#35	R5F10BMECKFB#35	
R5F10BGCKFB#35Q	R5F10BLCKFB#35Q	R5F10BMECKFB#35Q	
R5F10BGCKFB#55	R5F10BLCKFB#55	R5F10BMECKFB#55	
R5F10BGCKFB#55Q	R5F10BLCKFB#55Q	R5F10BMECKFB#55Q	
R5F10BGDCKFB#15	R5F10BLDCKFB#15	R5F10BMFCKFB#15	
R5F10BGDCKFB#15Q	R5F10BLDCKFB#15Q	R5F10BMFCKFB#15Q	
R5F10BGDCKFB#35	R5F10BLDCKFB#35	R5F10BMFCKFB#35	
R5F10BGDCKFB#35Q	R5F10BLDCKFB#35Q	R5F10BMFCKFB#35Q	
R5F10BGDCKFB#55	R5F10BLDCKFB#55	R5F10BMFCKFB#55	
R5F10BGDCKFB#55Q	R5F10BLDCKFB#55Q	R5F10BMFCKFB#55Q	
R5F10BGECKFB#15	R5F10BLECKFB#15	R5F10BMGCKFB#15	
R5F10BGECKFB#15Q	R5F10BLECKFB#15Q	R5F10BMGCKFB#15Q	
R5F10BGECKFB#35	R5F10BLECKFB#35	R5F10BMGCKFB#35	
R5F10BGECKFB#35Q	R5F10BLECKFB#35Q	R5F10BMGCKFB#35Q	
R5F10BGECKFB#55	R5F10BLECKFB#55	R5F10BMGCKFB#55	
R5F10BGECKFB#55Q	R5F10BLECKFB#55Q	R5F10BMGCKFB#55Q	
R5F10BGFCKFB#15	R5F10BLFCKFB#15		
R5F10BGFCKFB#15Q	R5F10BLFCKFB#15Q		
R5F10BGFCKFB#35	R5F10BLFCKFB#35		
R5F10BGFCKFB#35Q	R5F10BLFCKFB#35Q		
R5F10BGFCKFB#55	R5F10BLFCKFB#55		
R5F10BGFCKFB#55Q	R5F10BLFCKFB#55Q		
R5F10BGGCKFB#15	R5F10BLGCKFB#15		
R5F10BGGCKFB#15Q	R5F10BLGCKFB#15Q		
R5F10BGGCKFB#35	R5F10BLGCKFB#35		
R5F10BGGCKFB#35Q	R5F10BLGCKFB#35Q		
R5F10BGGCKFB#55	R5F10BLGCKFB#55		
R5F10BGGCKFB#55Q	R5F10BLGCKFB#55Q		

RL78/F13(CAN/LIN) series : Automotive Grade Level Grade1

48pin, Grade1	64pin, Grade1	80pin, Grade1	
R5F10BGCK***FB15	R5F10BLCK***FB15	R5F10BMECK***FB15	
R5F10BGCK***FB15Q	R5F10BLCK***FB15Q	R5F10BMECK***FB15Q	
R5F10BGCK***FB35	R5F10BLCK***FB35	R5F10BMECK***FB35	
R5F10BGCK***FB35Q	R5F10BLCK***FB35Q	R5F10BMECK***FB35Q	
R5F10BGCK***FB55	R5F10BLCK***FB55	R5F10BMECK***FB55	
R5F10BGCK***FB55Q	R5F10BLCK***FB55Q	R5F10BMECK***FB55Q	
R5F10BGDCK***FB15	R5F10BLDCK***FB15	R5F10BMFCK***FB15	
R5F10BGDCK***FB15Q	R5F10BLDCK***FB15Q	R5F10BMFCK***FB15Q	
R5F10BGDCK***FB35	R5F10BLDCK***FB35	R5F10BMFCK***FB35	
R5F10BGDCK***FB35Q	R5F10BLDCK***FB35Q	R5F10BMFCK***FB35Q	
R5F10BGDCK***FB55	R5F10BLDCK***FB55	R5F10BMFCK***FB55	
R5F10BGDCK***FB55Q	R5F10BLDCK***FB55Q	R5F10BMFCK***FB55Q	
R5F10BGECK***FB15	R5F10BLECK***FB15	R5F10BMGCK***FB15	
R5F10BGECK***FB15Q	R5F10BLECK***FB15Q	R5F10BMGCK***FB15Q	
R5F10BGECK***FB35	R5F10BLECK***FB35	R5F10BMGCK***FB35	
R5F10BGECK***FB35Q	R5F10BLECK***FB35Q	R5F10BMGCK***FB35Q	
R5F10BGECK***FB55	R5F10BLECK***FB55	R5F10BMGCK***FB55	
R5F10BGECK***FB55Q	R5F10BLECK***FB55Q	R5F10BMGCK***FB55Q	
R5F10BGFCK***FB15	R5F10BLFCK***FB15		
R5F10BGFCK***FB15Q	R5F10BLFCK***FB15Q		
R5F10BGFCK***FB35	R5F10BLFCK***FB35		
R5F10BGFCK***FB35Q	R5F10BLFCK***FB35Q		
R5F10BGFCK***FB55	R5F10BLFCK***FB55		
R5F10BGFCK***FB55Q	R5F10BLFCK***FB55Q		
R5F10BGGCK***FB15	R5F10BLGCK***FB15		
R5F10BGGCK***FB15Q	R5F10BLGCK***FB15Q		
R5F10BGGCK***FB35	R5F10BLGCK***FB35		
R5F10BGGCK***FB35Q	R5F10BLGCK***FB35Q		
R5F10BGGCK***FB55	R5F10BLGCK***FB55		
R5F10BGGCK***FB55Q	R5F10BLGCK***FB55Q		

*** means ROM code

RL78/F13(CAN/LIN) series : Automotive Grade Level Grade0

48pin, Grade0	64pin, Grade0	80pin, Grade0	
R5F10BGCCYFB#15	R5F10BLCCYFB#15	R5F10BMECYFB#15	
R5F10BGCCYFB#15Q	R5F10BLCCYFB#15Q	R5F10BMECYFB#15Q	
R5F10BGCCYFB#35	R5F10BLCCYFB#35	R5F10BMECYFB#35	
R5F10BGCCYFB#35Q	R5F10BLCCYFB#35Q	R5F10BMECYFB#35Q	
R5F10BGCCYFB#55	R5F10BLCCYFB#55	R5F10BMECYFB#55	
R5F10BGCCYFB#55Q	R5F10BLCCYFB#55Q	R5F10BMECYFB#55Q	
R5F10BGDCYFB#15	R5F10BLDCYFB#15	R5F10BMFCYFB#15	
R5F10BGDCYFB#15Q	R5F10BLDCYFB#15Q	R5F10BMFCYFB#15Q	
R5F10BGDCYFB#35	R5F10BLDCYFB#35	R5F10BMFCYFB#35	
R5F10BGDCYFB#35Q	R5F10BLDCYFB#35Q	R5F10BMFCYFB#35Q	
R5F10BGDCYFB#55	R5F10BLDCYFB#55	R5F10BMFCYFB#55	
R5F10BGDCYFB#55Q	R5F10BLDCYFB#55Q	R5F10BMFCYFB#55Q	
R5F10BGECYFB#15	R5F10BLECYFB#15	R5F10BMGCYFB#15	
R5F10BGECYFB#15Q	R5F10BLECYFB#15Q	R5F10BMGCYFB#15Q	
R5F10BGECYFB#35	R5F10BLECYFB#35	R5F10BMGCYFB#35	
R5F10BGECYFB#35Q	R5F10BLECYFB#35Q	R5F10BMGCYFB#35Q	
R5F10BGECYFB#55	R5F10BLECYFB#55	R5F10BMGCYFB#55	
R5F10BGECYFB#55Q	R5F10BLECYFB#55Q	R5F10BMGCYFB#55Q	
R5F10BGFCYFB#15	R5F10BLFCYFB#15		
R5F10BGFCYFB#15Q	R5F10BLFCYFB#15Q		
R5F10BGFCYFB#35	R5F10BLFCYFB#35		
R5F10BGFCYFB#35Q	R5F10BLFCYFB#35Q		
R5F10BGFCYFB#55	R5F10BLFCYFB#55		
R5F10BGFCYFB#55Q	R5F10BLFCYFB#55Q		
R5F10BGGCYFB#15	R5F10BLGCRYFB#15		
R5F10BGGCYFB#15Q	R5F10BLGCRYFB#15Q		
R5F10BGGCYFB#35	R5F10BLGCRYFB#35		
R5F10BGGCYFB#35Q	R5F10BLGCRYFB#35Q		
R5F10BGGCYFB#55	R5F10BLGCRYFB#55		
R5F10BGGCYFB#55Q	R5F10BLGCRYFB#55Q		

RL78/F14 series : Automotive Grade Level Grade2

48pin, Grade2	64pin, Grade2	80pin, Grade2	100pin, Grade2
R5F10PGDCLFB#15	R5F10PLECLFB#15	R5F10PMECLFB#15	R5F10PPECLFB#15
R5F10PGDCLFB#15Q	R5F10PLECLFB#15Q	R5F10PMECLFB#15Q	R5F10PPECLFB#15Q
R5F10PGDCLFB#35	R5F10PLECLFB#35	R5F10PMECLFB#35	R5F10PPECLFB#35
R5F10PGDCLFB#35Q	R5F10PLECLFB#35Q	R5F10PMECLFB#35Q	R5F10PPECLFB#35Q
R5F10PGDCLFB#55	R5F10PLECLFB#55	R5F10PMECLFB#55	R5F10PPECLFB#55
R5F10PGDCLFB#55Q	R5F10PLECLFB#55Q	R5F10PMECLFB#55Q	R5F10PPECLFB#55Q
R5F10PGECLFB#15	R5F10PLFCLFB#15	R5F10PMFCLFB#15	R5F10PPFCLFB#15
R5F10PGECLFB#15Q	R5F10PLFCLFB#15Q	R5F10PMFCLFB#15Q	R5F10PPFCLFB#15Q
R5F10PGECLFB#35	R5F10PLFCLFB#35	R5F10PMFCLFB#35	R5F10PPFCLFB#35
R5F10PGECLFB#35Q	R5F10PLFCLFB#35Q	R5F10PMFCLFB#35Q	R5F10PPFCLFB#35Q
R5F10PGECLFB#55	R5F10PLFCLFB#55	R5F10PMFCLFB#55	R5F10PPFCLFB#55
R5F10PGECLFB#55Q	R5F10PLFCLFB#55Q	R5F10PMFCLFB#55Q	R5F10PPFCLFB#55Q
R5F10PGFCLFB#15	R5F10PLGCLFB#15	R5F10PMGCLFB#15	R5F10PPGCLFB#15
R5F10PGFCLFB#15Q	R5F10PLGCLFB#15Q	R5F10PMGCLFB#15Q	R5F10PPGCLFB#15Q
R5F10PGFCLFB#35	R5F10PLGCLFB#35	R5F10PMGCLFB#35	R5F10PPGCLFB#35
R5F10PGFCLFB#35Q	R5F10PLGCLFB#35Q	R5F10PMGCLFB#35Q	R5F10PPGCLFB#35Q
R5F10PGFCLFB#55	R5F10PLGCLFB#55	R5F10PMGCLFB#55	R5F10PPGCLFB#55
R5F10PGFCLFB#55Q	R5F10PLGCLFB#55Q	R5F10PMGCLFB#55Q	R5F10PPGCLFB#55Q
R5F10PGGCLFB#15	R5F10PLHCLFB#15	R5F10PMHCLFB#15	R5F10PPHCLFB#15
R5F10PGGCLFB#15Q	R5F10PLHCLFB#15Q	R5F10PMHCLFB#15Q	R5F10PPHCLFB#15Q
R5F10PGGCLFB#35	R5F10PLHCLFB#35	R5F10PMHCLFB#35	R5F10PPHCLFB#35
R5F10PGGCLFB#35Q	R5F10PLHCLFB#35Q	R5F10PMHCLFB#35Q	R5F10PPHCLFB#35Q
R5F10PGGCLFB#55	R5F10PLHCLFB#55	R5F10PMHCLFB#55	R5F10PPHCLFB#55
R5F10PGGCLFB#55Q	R5F10PLHCLFB#55Q	R5F10PMHCLFB#55Q	R5F10PPHCLFB#55Q
R5F10PGHCLFB#15	R5F10PLJCLFB#15	R5F10PMJCLFB#15	R5F10PPJCLFB#15
R5F10PGHCLFB#15Q	R5F10PLJCLFB#15Q	R5F10PMJCLFB#15Q	R5F10PPJCLFB#15Q
R5F10PGHCLFB#35	R5F10PLJCLFB#35	R5F10PMJCLFB#35	R5F10PPJCLFB#35
R5F10PGHCLFB#35Q	R5F10PLJCLFB#35Q	R5F10PMJCLFB#35Q	R5F10PPJCLFB#35Q
R5F10PGHCLFB#55	R5F10PLJCLFB#55	R5F10PMJCLFB#55	R5F10PPJCLFB#55
R5F10PGHCLFB#55Q	R5F10PLJCLFB#55Q	R5F10PMJCLFB#55Q	R5F10PPJCLFB#55Q
R5F10PGJCLFB#15			
R5F10PGJCLFB#15Q			
R5F10PGJCLFB#35			
R5F10PGJCLFB#35Q			
R5F10PGJCLFB#55			
R5F10PGJCLFB#55Q			

RL78/F14 series : Automotive Grade Level Grade2

48pin, Grade2	64pin, Grade2	80pin, Grade2	100pin, Grade2
R5F10PGDCL***FB15	R5F10PLECL***FB15	R5F10PMECL***FB15	R5F10PPECL***FB15
R5F10PGDCL***FB15Q	R5F10PLECL***FB15Q	R5F10PMECL***FB15Q	R5F10PPECL***FB15Q
R5F10PGDCL***FB35	R5F10PLECL***FB35	R5F10PMECL***FB35	R5F10PPECL***FB35
R5F10PGDCL***FB35Q	R5F10PLECL***FB35Q	R5F10PMECL***FB35Q	R5F10PPECL***FB35Q
R5F10PGDCL***FB55	R5F10PLECL***FB55	R5F10PMECL***FB55	R5F10PPECL***FB55
R5F10PGDCL***FB55Q	R5F10PLECL***FB55Q	R5F10PMECL***FB55Q	R5F10PPECL***FB55Q
R5F10PGECL***FB15	R5F10PLFCL***FB15	R5F10PMFCL***FB15	R5F10PPFCL***FB15
R5F10PGECL***FB15Q	R5F10PLFCL***FB15Q	R5F10PMFCL***FB15Q	R5F10PPFCL***FB15Q
R5F10PGECL***FB35	R5F10PLFCL***FB35	R5F10PMFCL***FB35	R5F10PPFCL***FB35
R5F10PGECL***FB35Q	R5F10PLFCL***FB35Q	R5F10PMFCL***FB35Q	R5F10PPFCL***FB35Q
R5F10PGECL***FB55	R5F10PLFCL***FB55	R5F10PMFCL***FB55	R5F10PPFCL***FB55
R5F10PGECL***FB55Q	R5F10PLFCL***FB55Q	R5F10PMFCL***FB55Q	R5F10PPFCL***FB55Q
R5F10PGFCL***FB15	R5F10PLGCL***FB15	R5F10PMGCL***FB15	R5F10PPGCL***FB15
R5F10PGFCL***FB15Q	R5F10PLGCL***FB15Q	R5F10PMGCL***FB15Q	R5F10PPGCL***FB15Q
R5F10PGFCL***FB35	R5F10PLGCL***FB35	R5F10PMGCL***FB35	R5F10PPGCL***FB35
R5F10PGFCL***FB35Q	R5F10PLGCL***FB35Q	R5F10PMGCL***FB35Q	R5F10PPGCL***FB35Q
R5F10PGFCL***FB55	R5F10PLGCL***FB55	R5F10PMGCL***FB55	R5F10PPGCL***FB55
R5F10PGFCL***FB55Q	R5F10PLGCL***FB55Q	R5F10PMGCL***FB55Q	R5F10PPGCL***FB55Q
R5F10PGGCL***FB15	R5F10PLHCL***FB15	R5F10PMHCL***FB15	R5F10PPHCL***FB15
R5F10PGGCL***FB15Q	R5F10PLHCL***FB15Q	R5F10PMHCL***FB15Q	R5F10PPHCL***FB15Q
R5F10PGGCL***FB35	R5F10PLHCL***FB35	R5F10PMHCL***FB35	R5F10PPHCL***FB35
R5F10PGGCL***FB35Q	R5F10PLHCL***FB35Q	R5F10PMHCL***FB35Q	R5F10PPHCL***FB35Q
R5F10PGGCL***FB55	R5F10PLHCL***FB55	R5F10PMHCL***FB55	R5F10PPHCL***FB55
R5F10PGGCL***FB55Q	R5F10PLHCL***FB55Q	R5F10PMHCL***FB55Q	R5F10PPHCL***FB55Q
R5F10PGHCL***FB15	R5F10PLJCL***FB15	R5F10PMJCL***FB15	R5F10PPJCL***FB15
R5F10PGHCL***FB15Q	R5F10PLJCL***FB15Q	R5F10PMJCL***FB15Q	R5F10PPJCL***FB15Q
R5F10PGHCL***FB35	R5F10PLJCL***FB35	R5F10PMJCL***FB35	R5F10PPJCL***FB35
R5F10PGHCL***FB35Q	R5F10PLJCL***FB35Q	R5F10PMJCL***FB35Q	R5F10PPJCL***FB35Q
R5F10PGHCL***FB55	R5F10PLJCL***FB55	R5F10PMJCL***FB55	R5F10PPJCL***FB55
R5F10PGHCL***FB55Q	R5F10PLJCL***FB55Q	R5F10PMJCL***FB55Q	R5F10PPJCL***FB55Q
R5F10PGJCL***FB15			
R5F10PGJCL***FB15Q			
R5F10PGJCL***FB35			
R5F10PGJCL***FB35Q			
R5F10PGJCL***FB55			
R5F10PGJCL***FB55Q			

*** means ROM code

RL78/F14 series : Automotive Grade Level Grade1

48pin, Grade1	64pin, Grade1	80pin, Grade1	100pin, Grade1
R5F10PGDCKFB#15	R5F10PLECKFB#15	R5F10PMECKFB#15	R5F10PPECKFB#15
R5F10PGDCKFB#15Q	R5F10PLECKFB#15Q	R5F10PMECKFB#15Q	R5F10PPECKFB#15Q
R5F10PGDCKFB#35	R5F10PLECKFB#35	R5F10PMECKFB#35	R5F10PPECKFB#35
R5F10PGDCKFB#35Q	R5F10PLECKFB#35Q	R5F10PMECKFB#35Q	R5F10PPECKFB#35Q
R5F10PGDCKFB#55	R5F10PLECKFB#55	R5F10PMECKFB#55	R5F10PPECKFB#55
R5F10PGDCKFB#55Q	R5F10PLECKFB#55Q	R5F10PMECKFB#55Q	R5F10PPECKFB#55Q
R5F10PGECKFB#15	R5F10PLFCKFB#15	R5F10PMFCKFB#15	R5F10PPFCKFB#15
R5F10PGECKFB#15Q	R5F10PLFCKFB#15Q	R5F10PMFCKFB#15Q	R5F10PPFCKFB#15Q
R5F10PGECKFB#35	R5F10PLFCKFB#35	R5F10PMFCKFB#35	R5F10PPFCKFB#35
R5F10PGECKFB#35Q	R5F10PLFCKFB#35Q	R5F10PMFCKFB#35Q	R5F10PPFCKFB#35Q
R5F10PGECKFB#55	R5F10PLFCKFB#55	R5F10PMFCKFB#55	R5F10PPFCKFB#55
R5F10PGECKFB#55Q	R5F10PLFCKFB#55Q	R5F10PMFCKFB#55Q	R5F10PPFCKFB#55Q
R5F10PGFCKFB#15	R5F10PLGCKFB#15	R5F10PMGCKFB#15	R5F10PPGCKFB#15
R5F10PGFCKFB#15Q	R5F10PLGCKFB#15Q	R5F10PMGCKFB#15Q	R5F10PPGCKFB#15Q
R5F10PGFCKFB#35	R5F10PLGCKFB#35	R5F10PMGCKFB#35	R5F10PPGCKFB#35
R5F10PGFCKFB#35Q	R5F10PLGCKFB#35Q	R5F10PMGCKFB#35Q	R5F10PPGCKFB#35Q
R5F10PGFCKFB#55	R5F10PLGCKFB#55	R5F10PMGCKFB#55	R5F10PPGCKFB#55
R5F10PGFCKFB#55Q	R5F10PLGCKFB#55Q	R5F10PMGCKFB#55Q	R5F10PPGCKFB#55Q
R5F10PGGCKFB#15	R5F10PLHCKFB#15	R5F10PMHCKFB#15	R5F10PPHCKFB#15
R5F10PGGCKFB#15Q	R5F10PLHCKFB#15Q	R5F10PMHCKFB#15Q	R5F10PPHCKFB#15Q
R5F10PGGCKFB#35	R5F10PLHCKFB#35	R5F10PMHCKFB#35	R5F10PPHCKFB#35
R5F10PGGCKFB#35Q	R5F10PLHCKFB#35Q	R5F10PMHCKFB#35Q	R5F10PPHCKFB#35Q
R5F10PGGCKFB#55	R5F10PLHCKFB#55	R5F10PMHCKFB#55	R5F10PPHCKFB#55
R5F10PGGCKFB#55Q	R5F10PLHCKFB#55Q	R5F10PMHCKFB#55Q	R5F10PPHCKFB#55Q
R5F10PGHCKFB#15	R5F10PLJCKFB#15	R5F10PMJCKFB#15	R5F10PPJCKFB#15
R5F10PGHCKFB#15Q	R5F10PLJCKFB#15Q	R5F10PMJCKFB#15Q	R5F10PPJCKFB#15Q
R5F10PGHCKFB#35	R5F10PLJCKFB#35	R5F10PMJCKFB#35	R5F10PPJCKFB#35
R5F10PGHCKFB#35Q	R5F10PLJCKFB#35Q	R5F10PMJCKFB#35Q	R5F10PPJCKFB#35Q
R5F10PGHCKFB#55	R5F10PLJCKFB#55	R5F10PMJCKFB#55	R5F10PPJCKFB#55
R5F10PGHCKFB#55Q	R5F10PLJCKFB#55Q	R5F10PMJCKFB#55Q	R5F10PPJCKFB#55Q
R5F10PGJCKFB#15			
R5F10PGJCKFB#15Q			
R5F10PGJCKFB#35			
R5F10PGJCKFB#35Q			
R5F10PGJCKFB#55			
R5F10PGJCKFB#55Q			
R5F1Y1GGCKFB#15			
R5F1Y1GGCKFB#35			

RL78/F14 series : Automotive Grade Level Grade1

48pin, Grade1	64pin, Grade1	80pin, Grade1	100pin, Grade1
R5F10PGDCK***FB15	R5F10PLECK***FB15	R5F10PMECK***FB15	R5F10PPECK***FB15
R5F10PGDCK***FB15Q	R5F10PLECK***FB15Q	R5F10PMECK***FB15Q	R5F10PPECK***FB15Q
R5F10PGDCK***FB35	R5F10PLECK***FB35	R5F10PMECK***FB35	R5F10PPECK***FB35
R5F10PGDCK***FB35Q	R5F10PLECK***FB35Q	R5F10PMECK***FB35Q	R5F10PPECK***FB35Q
R5F10PGDCK***FB55	R5F10PLECK***FB55	R5F10PMECK***FB55	R5F10PPECK***FB55
R5F10PGDCK***FB55Q	R5F10PLECK***FB55Q	R5F10PMECK***FB55Q	R5F10PPECK***FB55Q
R5F10PGECK***FB15	R5F10PLFCK***FB15	R5F10PMFCK***FB15	R5F10PPFCK***FB15
R5F10PGECK***FB15Q	R5F10PLFCK***FB15Q	R5F10PMFCK***FB15Q	R5F10PPFCK***FB15Q
R5F10PGECK***FB35	R5F10PLFCK***FB35	R5F10PMFCK***FB35	R5F10PPFCK***FB35
R5F10PGECK***FB35Q	R5F10PLFCK***FB35Q	R5F10PMFCK***FB35Q	R5F10PPFCK***FB35Q
R5F10PGECK***FB55	R5F10PLFCK***FB55	R5F10PMFCK***FB55	R5F10PPFCK***FB55
R5F10PGECK***FB55Q	R5F10PLFCK***FB55Q	R5F10PMFCK***FB55Q	R5F10PPFCK***FB55Q
R5F10PGFCK***FB15	R5F10PLGCK***FB15	R5F10PMGCK***FB15	R5F10PPGCK***FB15
R5F10PGFCK***FB15Q	R5F10PLGCK***FB15Q	R5F10PMGCK***FB15Q	R5F10PPGCK***FB15Q
R5F10PGFCK***FB35	R5F10PLGCK***FB35	R5F10PMGCK***FB35	R5F10PPGCK***FB35
R5F10PGFCK***FB35Q	R5F10PLGCK***FB35Q	R5F10PMGCK***FB35Q	R5F10PPGCK***FB35Q
R5F10PGFCK***FB55	R5F10PLGCK***FB55	R5F10PMGCK***FB55	R5F10PPGCK***FB55
R5F10PGFCK***FB55Q	R5F10PLGCK***FB55Q	R5F10PMGCK***FB55Q	R5F10PPGCK***FB55Q
R5F10PGGCK***FB15	R5F10PLHCK***FB15	R5F10PMHCK***FB15	R5F10PPHCK***FB15
R5F10PGGCK***FB15Q	R5F10PLHCK***FB15Q	R5F10PMHCK***FB15Q	R5F10PPHCK***FB15Q
R5F10PGGCK***FB35	R5F10PLHCK***FB35	R5F10PMHCK***FB35	R5F10PPHCK***FB35
R5F10PGGCK***FB35Q	R5F10PLHCK***FB35Q	R5F10PMHCK***FB35Q	R5F10PPHCK***FB35Q
R5F10PGGCK***FB55	R5F10PLHCK***FB55	R5F10PMHCK***FB55	R5F10PPHCK***FB55
R5F10PGGCK***FB55Q	R5F10PLHCK***FB55Q	R5F10PMHCK***FB55Q	R5F10PPHCK***FB55Q
R5F10PGHCK***FB15	R5F10PLJCK***FB15	R5F10PMJCK***FB15	R5F10PPJCK***FB15
R5F10PGHCK***FB15Q	R5F10PLJCK***FB15Q	R5F10PMJCK***FB15Q	R5F10PPJCK***FB15Q
R5F10PGHCK***FB35	R5F10PLJCK***FB35	R5F10PMJCK***FB35	R5F10PPJCK***FB35
R5F10PGHCK***FB35Q	R5F10PLJCK***FB35Q	R5F10PMJCK***FB35Q	R5F10PPJCK***FB35Q
R5F10PGHCK***FB55	R5F10PLJCK***FB55	R5F10PMJCK***FB55	R5F10PPJCK***FB55
R5F10PGHCK***FB55Q	R5F10PLJCK***FB55Q	R5F10PMJCK***FB55Q	R5F10PPJCK***FB55Q
R5F10PGJCK***FB15			
R5F10PGJCK***FB15Q			
R5F10PGJCK***FB35			
R5F10PGJCK***FB35Q			
R5F10PGJCK***FB55			
R5F10PGJCK***FB55Q			

*** means ROM code

RL78/F14 series : Automotive Grade Level Grade0

48pin, Grade0	64pin, Grade0	80pin, Grade0	100pin, Grade0
R5F10PGDCYFB#15	R5F10PLECYFB#15	R5F10PMECYFB#15	R5F10PPECYFB#15
R5F10PGDCYFB#15Q	R5F10PLECYFB#15Q	R5F10PMECYFB#15Q	R5F10PPECYFB#15Q
R5F10PGDCYFB#35	R5F10PLECYFB#35	R5F10PMECYFB#35	R5F10PPECYFB#35
R5F10PGDCYFB#35Q	R5F10PLECYFB#35Q	R5F10PMECYFB#35Q	R5F10PPECYFB#35Q
R5F10PGDCYFB#55	R5F10PLECYFB#55	R5F10PMECYFB#55	R5F10PPECYFB#55
R5F10PGDCYFB#55Q	R5F10PLECYFB#55Q	R5F10PMECYFB#55Q	R5F10PPECYFB#55Q
R5F10PGECYFB#15	R5F10PLFCYFB#15	R5F10PMFCYFB#15	R5F10PPFCYFB#15
R5F10PGECYFB#15Q	R5F10PLFCYFB#15Q	R5F10PMFCYFB#15Q	R5F10PPFCYFB#15Q
R5F10PGECYFB#35	R5F10PLFCYFB#35	R5F10PMFCYFB#35	R5F10PPFCYFB#35
R5F10PGECYFB#35Q	R5F10PLFCYFB#35Q	R5F10PMFCYFB#35Q	R5F10PPFCYFB#35Q
R5F10PGECYFB#55	R5F10PLFCYFB#55	R5F10PMFCYFB#55	R5F10PPFCYFB#55
R5F10PGECYFB#55Q	R5F10PLFCYFB#55Q	R5F10PMFCYFB#55Q	R5F10PPFCYFB#55Q
R5F10PGFCYFB#15	R5F10PLGCYFB#15	R5F10PMGCYFB#15	R5F10PPGCYFB#15
R5F10PGFCYFB#15Q	R5F10PLGCYFB#15Q	R5F10PMGCYFB#15Q	R5F10PPGCYFB#15Q
R5F10PGFCYFB#35	R5F10PLGCYFB#35	R5F10PMGCYFB#35	R5F10PPGCYFB#35
R5F10PGFCYFB#35Q	R5F10PLGCYFB#35Q	R5F10PMGCYFB#35Q	R5F10PPGCYFB#35Q
R5F10PGFCYFB#55	R5F10PLGCYFB#55	R5F10PMGCYFB#55	R5F10PPGCYFB#55
R5F10PGFCYFB#55Q	R5F10PLGCYFB#55Q	R5F10PMGCYFB#55Q	R5F10PPGCYFB#55Q
R5F10PGGCYFB#15	R5F10PLHCYFB#15	R5F10PMHCYFB#15	R5F10PPHCYFB#15
R5F10PGGCYFB#15Q	R5F10PLHCYFB#15Q	R5F10PMHCYFB#15Q	R5F10PPHCYFB#15Q
R5F10PGGCYFB#35	R5F10PLHCYFB#35	R5F10PMHCYFB#35	R5F10PPHCYFB#35
R5F10PGGCYFB#35Q	R5F10PLHCYFB#35Q	R5F10PMHCYFB#35Q	R5F10PPHCYFB#35Q
R5F10PGGCYFB#55	R5F10PLHCYFB#55	R5F10PMHCYFB#55	R5F10PPHCYFB#55
R5F10PGGCYFB#55Q	R5F10PLHCYFB#55Q	R5F10PMHCYFB#55Q	R5F10PPHCYFB#55Q
R5F10PGHCYFB#15	R5F10PLJCYFB#15	R5F10PMJCYFB#15	R5F10PPJCYFB#15
R5F10PGHCYFB#15Q	R5F10PLJCYFB#15Q	R5F10PMJCYFB#15Q	R5F10PPJCYFB#15Q
R5F10PGHCYFB#35	R5F10PLJCYFB#35	R5F10PMJCYFB#35	R5F10PPJCYFB#35
R5F10PGHCYFB#35Q	R5F10PLJCYFB#35Q	R5F10PMJCYFB#35Q	R5F10PPJCYFB#35Q
R5F10PGHCYFB#55	R5F10PLJCYFB#55	R5F10PMJCYFB#55	R5F10PPJCYFB#55
R5F10PGHCYFB#55Q	R5F10PLJCYFB#55Q	R5F10PMJCYFB#55Q	R5F10PPJCYFB#55Q
R5F10PGJCYFB#15			
R5F10PGJCYFB#15Q			
R5F10PGJCYFB#35			
R5F10PGJCYFB#35Q			
R5F10PGJCYFB#55			
R5F10PGJCYFB#55Q			

RL78/F15 series : Automotive Grade Level Grade2

48pin, Grade2	64pin, Grade2	80pin, Grade2	100pin, Grade2
R5F113GKCLFB#15	R5F113LKCLFB#15	R5F113MKCLFB#15	R5F113PGCLFB#15
R5F113GKCLFB#15Q	R5F113LKCLFB#15Q	R5F113MKCLFB#15Q	R5F113PGCLFB#15Q
R5F113GKCLFB#35	R5F113LKCLFB#35	R5F113MKCLFB#35	R5F113PGCLFB#35
R5F113GKCLFB#35Q	R5F113LKCLFB#35Q	R5F113MKCLFB#35Q	R5F113PGCLFB#35Q
R5F113GKCLFB#55	R5F113LKCLFB#55	R5F113MKCLFB#55	R5F113PGCLFB#55
R5F113GKCLFB#55Q	R5F113LKCLFB#55Q	R5F113MKCLFB#55Q	R5F113PGCLFB#55Q
R5F113GLCLFB#15	R5F113LLCLFB#15	R5F113MLCLFB#15	R5F113PHCLFB#15
R5F113GLCLFB#15Q	R5F113LLCLFB#15Q	R5F113MLCLFB#15Q	R5F113PHCLFB#15Q
R5F113GLCLFB#35	R5F113LLCLFB#35	R5F113MLCLFB#35	R5F113PHCLFB#35
R5F113GLCLFB#35Q	R5F113LLCLFB#35Q	R5F113MLCLFB#35Q	R5F113PHCLFB#35Q
R5F113GLCLFB#55	R5F113LLCLFB#55	R5F113MLCLFB#55	R5F113PHCLFB#55
R5F113GLCLFB#55Q	R5F113LLCLFB#55Q	R5F113MLCLFB#55Q	R5F113PHCLFB#55Q
			R5F113PJCLFB#15
			R5F113PJCLFB#15Q
			R5F113PJCLFB#35
			R5F113PJCLFB#35Q
			R5F113PJCLFB#55
			R5F113PJCLFB#55Q
			R5F113PKCLFB#15
			R5F113PKCLFB#15Q
			R5F113PKCLFB#35
			R5F113PKCLFB#35Q
			R5F113PKCLFB#55
			R5F113PKCLFB#55Q
			R5F113PLCLFB#15
			R5F113PLCLFB#15Q
			R5F113PLCLFB#35
			R5F113PLCLFB#35Q
			R5F113PLCLFB#55
			R5F113PLCLFB#55Q

RL78/F15 series : Automotive Grade Level Grade1

PC-MCU-A023A/J

48pin, Grade1	64pin, Grade1	80pin, Grade1	100pin, Grade1
R5F113GKCKFB#15	R5F113LKCKFB#15	R5F113MKCKFB#15	R5F113PGCKFB#15
R5F113GKCKFB#15Q	R5F113LKCKFB#15Q	R5F113MKCKFB#15Q	R5F113PGCKFB#15Q
R5F113GKCKFB#35	R5F113LKCKFB#35	R5F113MKCKFB#35	R5F113PGCKFB#35
R5F113GKCKFB#35Q	R5F113LKCKFB#35Q	R5F113MKCKFB#35Q	R5F113PGCKFB#35Q
R5F113GKCKFB#55	R5F113LKCKFB#55	R5F113MKCKFB#55	R5F113PGCKFB#55
R5F113GKCKFB#55Q	R5F113LKCKFB#55Q	R5F113MKCKFB#55Q	R5F113PGCKFB#55Q
R5F113GLCKFB#15	R5F113LLCKFB#15	R5F113MLCKFB#15	R5F113PHCKFB#15
R5F113GLCKFB#15Q	R5F113LLCKFB#15Q	R5F113MLCKFB#15Q	R5F113PHCKFB#15Q
R5F113GLCKFB#35	R5F113LLCKFB#35	R5F113MLCKFB#35	R5F113PHCKFB#35
R5F113GLCKFB#35Q	R5F113LLCKFB#35Q	R5F113MLCKFB#35Q	R5F113PHCKFB#35Q
R5F113GLCKFB#55	R5F113LLCKFB#55	R5F113MLCKFB#55	R5F113PHCKFB#55
R5F113GLCKFB#55Q	R5F113LLCKFB#55Q	R5F113MLCKFB#55Q	R5F113PHCKFB#55Q
			R5F113PJCKFB#15
			R5F113PJCKFB#15Q
			R5F113PJCKFB#35
			R5F113PJCKFB#35Q
			R5F113PJCKFB#55
			R5F113PJCKFB#55Q
			R5F113PKCKFB#15
			R5F113PKCKFB#15Q
			R5F113PKCKFB#35
			R5F113PKCKFB#35Q
			R5F113PKCKFB#55
			R5F113PKCKFB#55Q
			R5F113PLCKFB#15
			R5F113PLCKFB#15Q
			R5F113PLCKFB#35
			R5F113PLCKFB#35Q
			R5F113PLCKFB#55
			R5F113PLCKFB#55Q

RL78/D1A series : Automotive Grade Level Grade3

48pin, Grade3	48pin, Grade3	64pin, Grade3	64pin, Grade3
R5F10CGBCJFB#12	R5F10DGCCJFB#12	R5F10CLDCJFB#12	R5F10DLDCJFB#12
R5F10CGBCJFB#12G	R5F10DGCCJFB#12G	R5F10CLDCJFB#12G	R5F10DLDCJFB#12G
R5F10CGBCJFB#12Q	R5F10DGCCJFB#12Q	R5F10CLDCJFB#12Q	R5F10DLDCJFB#12Q
R5F10CGBCJFB#32	R5F10DGCCJFB#32	R5F10CLDCJFB#32	R5F10DLDCJFB#32
R5F10CGBCJFB#32G	R5F10DGCCJFB#32G	R5F10CLDCJFB#32G	R5F10DLDCJFB#32G
R5F10CGBCJFB#32Q	R5F10DGCCJFB#32Q	R5F10CLDCJFB#32Q	R5F10DLDCJFB#32Q
R5F10CGBCJFB#56	R5F10DGCCJFB#56	R5F10CLDCJFB#56	R5F10DLDCJFB#56
R5F10CGBCJFB#56G	R5F10DGCCJFB#56G	R5F10CLDCJFB#56G	R5F10DLDCJFB#56G
R5F10CGBCJFB#56Q	R5F10DGCCJFB#56Q	R5F10CLDCJFB#56Q	R5F10DLDCJFB#56Q
R5F10CGCCJFB#12	R5F10DGDCJFB#12		R5F10DLECCJFB#12
R5F10CGCCJFB#12G	R5F10DGDCJFB#12G		R5F10DLECCJFB#12G
R5F10CGCCJFB#12Q	R5F10DGDCJFB#12Q		R5F10DLECCJFB#12Q
R5F10CGCCJFB#32	R5F10DGDCJFB#32		R5F10DLECCJFB#32
R5F10CGCCJFB#32G	R5F10DGDCJFB#32G		R5F10DLECCJFB#32G
R5F10CGCCJFB#32Q	R5F10DGDCJFB#32Q		R5F10DLECCJFB#32Q
R5F10CGCCJFB#56	R5F10DGDCJFB#56		R5F10DLECCJFB#56
R5F10CGCCJFB#56G	R5F10DGDCJFB#56G		R5F10DLECCJFB#56G
R5F10CGCCJFB#56Q	R5F10DGDCJFB#56Q		R5F10DLECCJFB#56Q
R5F10CGDCJFB#12	R5F10DGECJFB#12		
R5F10CGDCJFB#12G	R5F10DGECJFB#12G		
R5F10CGDCJFB#12Q	R5F10DGECJFB#12Q		
R5F10CGDCJFB#32	R5F10DGECJFB#32		
R5F10CGDCJFB#32G	R5F10DGECJFB#32G		
R5F10CGDCJFB#32Q	R5F10DGECJFB#32Q		
R5F10CGDCJFB#56	R5F10DGECJFB#56		
R5F10CGDCJFB#56G	R5F10DGECJFB#56G		
R5F10CGDCJFB#56Q	R5F10DGECJFB#56Q		

RL78/D1A series : Automotive Grade Level Grade3

80pin, Grade3	80pin, Grade3	100pin, Grade3	100pin, Grade3
R5F10CMDCJFB#12	R5F10DMDCJFB#12	R5F10DPECJFB#12	R5F10TPJCJFB#12
R5F10CMDCJFB#12G	R5F10DMDCJFB#12G	R5F10DPECJFB#12G	R5F10TPJCJFB#12G
R5F10CMDCJFB#12Q	R5F10DMDCJFB#12Q	R5F10DPECJFB#12Q	R5F10TPJCJFB#12Q
R5F10CMDCJFB#32	R5F10DMDCJFB#32	R5F10DPECJFB#32	R5F10TPJCJFB#32
R5F10CMDCJFB#32G	R5F10DMDCJFB#32G	R5F10DPECJFB#32G	R5F10TPJCJFB#32G
R5F10CMDCJFB#32Q	R5F10DMDCJFB#32Q	R5F10DPECJFB#32Q	R5F10TPJCJFB#32Q
R5F10CMDCJFB#56	R5F10DMDCJFB#56	R5F10DPECJFB#56	R5F10TPJCJFB#56
R5F10CMDCJFB#56G	R5F10DMDCJFB#56G	R5F10DPECJFB#56G	R5F10TPJCJFB#56G
R5F10CMDCJFB#56Q	R5F10DMDCJFB#56Q	R5F10DPECJFB#56Q	R5F10TPJCJFB#56Q
R5F10CMECJFB#12	R5F10DMECJFB#12	R5F10DPFCJFB#12	R5F1Z3PJCJFB#12
R5F10CMECJFB#12G	R5F10DMECJFB#12G	R5F10DPFCJFB#12G	R5F1Z3PJCJFB#12G
R5F10CMECJFB#12Q	R5F10DMECJFB#12Q	R5F10DPFCJFB#12Q	R5F1Z3PJCJFB#32
R5F10CMECJFB#32	R5F10DMECJFB#32	R5F10DPFCJFB#32	R5F1Z3PJCJFB#32G
R5F10CMECJFB#32G	R5F10DMECJFB#32G	R5F10DPFCJFB#32G	R5F1Z3PJCJFB#56
R5F10CMECJFB#32Q	R5F10DMECJFB#32Q	R5F10DPFCJFB#32Q	R5F1Z3PJCJFB#56G
R5F10CMECJFB#56	R5F10DMECJFB#56	R5F10DPFCJFB#56	
R5F10CMECJFB#56G	R5F10DMECJFB#56G	R5F10DPFCJFB#56G	
R5F10CMECJFB#56Q	R5F10DMECJFB#56Q	R5F10DPFCJFB#56Q	
	R5F10DMFCJFB#12	R5F10DPGCJFB#12	
	R5F10DMFCJFB#12G	R5F10DPGCJFB#12G	
	R5F10DMFCJFB#12Q	R5F10DPGCJFB#12Q	
	R5F10DMFCJFB#32	R5F10DPGCJFB#32	
	R5F10DMFCJFB#32G	R5F10DPGCJFB#32G	
	R5F10DMFCJFB#32Q	R5F10DPGCJFB#32Q	
	R5F10DMFCJFB#56	R5F10DPGCJFB#56	
	R5F10DMFCJFB#56G	R5F10DPGCJFB#56G	
	R5F10DMFCJFB#56Q	R5F10DPGCJFB#56Q	
	R5F10DMGCJFB#12	R5F10DPJCJFB#12	
	R5F10DMGCJFB#12G	R5F10DPJCJFB#12G	
	R5F10DMGCJFB#12Q	R5F10DPJCJFB#12Q	
	R5F10DMGCJFB#32	R5F10DPJCJFB#32	
	R5F10DMGCJFB#32G	R5F10DPJCJFB#32G	
	R5F10DMGCJFB#32Q	R5F10DPJCJFB#32Q	
	R5F10DMGCJFB#56	R5F10DPJCJFB#56	
	R5F10DMGCJFB#56G	R5F10DPJCJFB#56G	
	R5F10DMGCJFB#56Q	R5F10DPJCJFB#56Q	
	R5F10DMJCJFB#12		
	R5F10DMJCJFB#12G		
	R5F10DMJCJFB#12Q		
	R5F10DMJCJFB#32		
	R5F10DMJCJFB#32G		
	R5F10DMJCJFB#32Q		
	R5F10DMJCJFB#56		
	R5F10DMJCJFB#56G		
	R5F10DMJCJFB#56Q		

RL78/D1A series : Automotive Grade Level Grade3

48pin, Grade3	48pin, Grade3	64pin, Grade3	64pin, Grade3
R5F10CGBCJ***FB12	R5F10DGCCJ***FB12	R5F10CLDCJ***FB12	R5F10DLDCJ***FB12
R5F10CGBCJ***FB12G	R5F10DGCCJ***FB12G	R5F10CLDCJ***FB12G	R5F10DLDCJ***FB12G
R5F10CGBCJ***FB12Q	R5F10DGCCJ***FB12Q	R5F10CLDCJ***FB12Q	R5F10DLDCJ***FB12Q
R5F10CGBCJ***FB32	R5F10DGCCJ***FB32	R5F10CLDCJ***FB32	R5F10DLDCJ***FB32
R5F10CGBCJ***FB32G	R5F10DGCCJ***FB32G	R5F10CLDCJ***FB32G	R5F10DLDCJ***FB32G
R5F10CGBCJ***FB32Q	R5F10DGCCJ***FB32Q	R5F10CLDCJ***FB32Q	R5F10DLDCJ***FB32Q
R5F10CGBCJ***FB56	R5F10DGCCJ***FB56	R5F10CLDCJ***FB56	R5F10DLDCJ***FB56
R5F10CGBCJ***FB56G	R5F10DGCCJ***FB56G	R5F10CLDCJ***FB56G	R5F10DLDCJ***FB56G
R5F10CGBCJ***FB56Q	R5F10DGCCJ***FB56Q	R5F10CLDCJ***FB56Q	R5F10DLDCJ***FB56Q
R5F10CGCCJ***FB12	R5F10DGDCJ***FB12		R5F10DLEcj***FB12
R5F10CGCCJ***FB12G	R5F10DGDCJ***FB12G		R5F10DLEcj***FB12G
R5F10CGCCJ***FB12Q	R5F10DGDCJ***FB12Q		R5F10DLEcj***FB12Q
R5F10CGCCJ***FB32	R5F10DGDCJ***FB32		R5F10DLEcj***FB32
R5F10CGCCJ***FB32G	R5F10DGDCJ***FB32G		R5F10DLEcj***FB32G
R5F10CGCCJ***FB32Q	R5F10DGDCJ***FB32Q		R5F10DLEcj***FB32Q
R5F10CGCCJ***FB56	R5F10DGDCJ***FB56		R5F10DLEcj***FB56
R5F10CGCCJ***FB56G	R5F10DGDCJ***FB56G		R5F10DLEcj***FB56G
R5F10CGCCJ***FB56Q	R5F10DGDCJ***FB56Q		R5F10DLEcj***FB56Q
R5F10CGDCJ***FB12	R5F10DGECJ***FB12		
R5F10CGDCJ***FB12G	R5F10DGECJ***FB12G		
R5F10CGDCJ***FB12Q	R5F10DGECJ***FB12Q		
R5F10CGDCJ***FB32	R5F10DGECJ***FB32		
R5F10CGDCJ***FB32G	R5F10DGECJ***FB32G		
R5F10CGDCJ***FB32Q	R5F10DGECJ***FB32Q		
R5F10CGDCJ***FB56	R5F10DGECJ***FB56		
R5F10CGDCJ***FB56G	R5F10DGECJ***FB56G		
R5F10CGDCJ***FB56Q	R5F10DGECJ***FB56Q		

*** means ROM code

RL78/D1A series : Automotive Grade Level Grade3

80pin, Grade3	80pin, Grade3	100pin, Grade3	100pin, Grade3
R5F10CMDCJ***FB12	R5F10DMDCJ***FB12	R5F10DPECJ***FB12	R5F10TPJCJ***FB12
R5F10CMDCJ***FB12G	R5F10DMDCJ***FB12G	R5F10DPECJ***FB12G	R5F10TPJCJ***FB12G
R5F10CMDCJ***FB12Q	R5F10DMDCJ***FB12Q	R5F10DPECJ***FB12Q	R5F10TPJCJ***FB12Q
R5F10CMDCJ***FB32	R5F10DMDCJ***FB32	R5F10DPECJ***FB32	R5F10TPJCJ***FB32
R5F10CMDCJ***FB32G	R5F10DMDCJ***FB32G	R5F10DPECJ***FB32G	R5F10TPJCJ***FB32G
R5F10CMDCJ***FB32Q	R5F10DMDCJ***FB32Q	R5F10DPECJ***FB32Q	R5F10TPJCJ***FB32Q
R5F10CMDCJ***FB56	R5F10DMDCJ***FB56	R5F10DPECJ***FB56	R5F10TPJCJ***FB56
R5F10CMDCJ***FB56G	R5F10DMDCJ***FB56G	R5F10DPECJ***FB56G	R5F10TPJCJ***FB56G
R5F10CMDCJ***FB56Q	R5F10DMDCJ***FB56Q	R5F10DPECJ***FB56Q	R5F10TPJCJ***FB56Q
R5F10CMECJ***FB12	R5F10DMECJ***FB12	R5F10DPFCJ***FB12	R5F1Z3PJCJ***FB12
R5F10CMECJ***FB12G	R5F10DMECJ***FB12G	R5F10DPFCJ***FB12G	R5F1Z3PJCJ***FB12G
R5F10CMECJ***FB12Q	R5F10DMECJ***FB12Q	R5F10DPFCJ***FB12Q	R5F1Z3PJCJ***FB32
R5F10CMECJ***FB32	R5F10DMECJ***FB32	R5F10DPFCJ***FB32	R5F1Z3PJCJ***FB32G
R5F10CMECJ***FB32G	R5F10DMECJ***FB32G	R5F10DPFCJ***FB32G	R5F1Z3PJCJ***FB56
R5F10CMECJ***FB32Q	R5F10DMECJ***FB32Q	R5F10DPFCJ***FB32Q	R5F1Z3PJCJ***FB56G
R5F10CMECJ***FB56	R5F10DMECJ***FB56	R5F10DPFCJ***FB56	
R5F10CMECJ***FB56G	R5F10DMECJ***FB56G	R5F10DPFCJ***FB56G	
R5F10CMECJ***FB56Q	R5F10DMECJ***FB56Q	R5F10DPFCJ***FB56Q	
	R5F10DMFCJ***FB12	R5F10DPGCJ***FB12	
	R5F10DMFCJ***FB12G	R5F10DPGCJ***FB12G	
	R5F10DMFCJ***FB12Q	R5F10DPGCJ***FB12Q	
	R5F10DMFCJ***FB32	R5F10DPGCJ***FB32	
	R5F10DMFCJ***FB32G	R5F10DPGCJ***FB32G	
	R5F10DMFCJ***FB32Q	R5F10DPGCJ***FB32Q	
	R5F10DMFCJ***FB56	R5F10DPGCJ***FB56	
	R5F10DMFCJ***FB56G	R5F10DPGCJ***FB56G	
	R5F10DMFCJ***FB56Q	R5F10DPGCJ***FB56Q	
	R5F10DMGCJ***FB12	R5F10DPJCJ***FB12	
	R5F10DMGCJ***FB12G	R5F10DPJCJ***FB12G	
	R5F10DMGCJ***FB12Q	R5F10DPJCJ***FB12Q	
	R5F10DMGCJ***FB32	R5F10DPJCJ***FB32	
	R5F10DMGCJ***FB32G	R5F10DPJCJ***FB32G	
	R5F10DMGCJ***FB32Q	R5F10DPJCJ***FB32Q	
	R5F10DMGCJ***FB56	R5F10DPJCJ***FB56	
	R5F10DMGCJ***FB56G	R5F10DPJCJ***FB56G	
	R5F10DMGCJ***FB56Q	R5F10DPJCJ***FB56Q	
	R5F10DMJCJ***FB12		
	R5F10DMJCJ***FB12G		
	R5F10DMJCJ***FB12Q		
	R5F10DMJCJ***FB32		
	R5F10DMJCJ***FB32G		
	R5F10DMJCJ***FB32Q		
	R5F10DMJCJ***FB56		
	R5F10DMJCJ***FB56G		
	R5F10DMJCJ***FB56Q		

*** means ROM code

RL78/D1A series : Automotive Grade Level Grade2

48pin, Grade2	48pin, Grade2	64pin, Grade2	64pin, Grade2
R5F10CGBCLFB#12	R5F10DGCCLFB#12	R5F10CLDCLFB#12	R5F10DLDCCLFB#12
R5F10CGBCLFB#12G	R5F10DGCCLFB#12G	R5F10CLDCLFB#12G	R5F10DLDCCLFB#12G
R5F10CGBCLFB#12Q	R5F10DGCCLFB#12Q	R5F10CLDCLFB#12Q	R5F10DLDCCLFB#12Q
R5F10CGBCLFB#32	R5F10DGCCLFB#32	R5F10CLDCLFB#32	R5F10DLDCCLFB#32
R5F10CGBCLFB#32G	R5F10DGCCLFB#32G	R5F10CLDCLFB#32G	R5F10DLDCCLFB#32G
R5F10CGBCLFB#32Q	R5F10DGCCLFB#32Q	R5F10CLDCLFB#32Q	R5F10DLDCCLFB#32Q
R5F10CGBCLFB#56	R5F10DGCCLFB#56	R5F10CLDCLFB#56	R5F10DLDCCLFB#56
R5F10CGBCLFB#56G	R5F10DGCCLFB#56G	R5F10CLDCLFB#56G	R5F10DLDCCLFB#56G
R5F10CGBCLFB#56Q	R5F10DGCCLFB#56Q	R5F10CLDCLFB#56Q	R5F10DLDCCLFB#56Q
R5F10CGCCLFB#12	R5F10DGDCLFB#12		R5F10DLECLFB#12
R5F10CGCCLFB#12G	R5F10DGDCLFB#12G		R5F10DLECLFB#12G
R5F10CGCCLFB#12Q	R5F10DGDCLFB#12Q		R5F10DLECLFB#12Q
R5F10CGCCLFB#32	R5F10DGDCLFB#32		R5F10DLECLFB#32
R5F10CGCCLFB#32G	R5F10DGDCLFB#32G		R5F10DLECLFB#32G
R5F10CGCCLFB#32Q	R5F10DGDCLFB#32Q		R5F10DLECLFB#32Q
R5F10CGCCLFB#56	R5F10DGDCLFB#56		R5F10DLECLFB#56
R5F10CGCCLFB#56G	R5F10DGDCLFB#56G		R5F10DLECLFB#56G
R5F10CGCCLFB#56Q	R5F10DGDCLFB#56Q		R5F10DLECLFB#56Q
R5F10CGDCLFB#12	R5F10DGECLFB#12		
R5F10CGDCLFB#12G	R5F10DGECLFB#12G		
R5F10CGDCLFB#12Q	R5F10DGECLFB#12Q		
R5F10CGDCLFB#32	R5F10DGECLFB#32		
R5F10CGDCLFB#32G	R5F10DGECLFB#32G		
R5F10CGDCLFB#32Q	R5F10DGECLFB#32Q		
R5F10CGDCLFB#56	R5F10DGECLFB#56		
R5F10CGDCLFB#56G	R5F10DGECLFB#56G		
R5F10CGDCLFB#56Q	R5F10DGECLFB#56Q		

RL78/D1A series : Automotive Grade Level Grade2

80pin, Grade2	80pin, Grade2	100pin, Grade2	100pin, Grade2
R5F10CMDCLFB#12	R5F10DMDCLFB#12	R5F10DPECLFB#12	R5F10TPJCLFB#12
R5F10CMDCLFB#12G	R5F10DMDCLFB#12G	R5F10DPECLFB#12G	R5F10TPJCLFB#12G
R5F10CMDCLFB#12Q	R5F10DMDCLFB#12Q	R5F10DPECLFB#12Q	R5F10TPJCLFB#12Q
R5F10CMDCLFB#32	R5F10DMDCLFB#32	R5F10DPECLFB#32	R5F10TPJCLFB#32
R5F10CMDCLFB#32G	R5F10DMDCLFB#32G	R5F10DPECLFB#32G	R5F10TPJCLFB#32G
R5F10CMDCLFB#32Q	R5F10DMDCLFB#32Q	R5F10DPECLFB#32Q	R5F10TPJCLFB#32Q
R5F10CMDCLFB#56	R5F10DMDCLFB#56	R5F10DPECLFB#56	R5F10TPJCLFB#56
R5F10CMDCLFB#56G	R5F10DMDCLFB#56G	R5F10DPECLFB#56G	R5F10TPJCLFB#56G
R5F10CMDCLFB#56Q	R5F10DMDCLFB#56Q	R5F10DPECLFB#56Q	R5F10TPJCLFB#56Q
R5F10CMECLFB#12	R5F10DMECLFB#12	R5F10DPFCLFB#12	R5F1Z3PJCLFB#12
R5F10CMECLFB#12G	R5F10DMECLFB#12G	R5F10DPFCLFB#12G	R5F1Z3PJCLFB#12G
R5F10CMECLFB#12Q	R5F10DMECLFB#12Q	R5F10DPFCLFB#12Q	R5F1Z3PJCLFB#32
R5F10CMECLFB#32	R5F10DMECLFB#32	R5F10DPFCLFB#32	R5F1Z3PJCLFB#32G
R5F10CMECLFB#32G	R5F10DMECLFB#32G	R5F10DPFCLFB#32G	R5F1Z3PJCLFB#56
R5F10CMECLFB#32Q	R5F10DMECLFB#32Q	R5F10DPFCLFB#32Q	R5F1Z3PJCLFB#56G
R5F10CMECLFB#56	R5F10DMECLFB#56	R5F10DPFCLFB#56	
R5F10CMECLFB#56G	R5F10DMECLFB#56G	R5F10DPFCLFB#56G	
R5F10CMECLFB#56Q	R5F10DMECLFB#56Q	R5F10DPFCLFB#56Q	
	R5F10DMFCLFB#12	R5F10DPGCLFB#12	
	R5F10DMFCLFB#12G	R5F10DPGCLFB#12G	
	R5F10DMFCLFB#12Q	R5F10DPGCLFB#12Q	
	R5F10DMFCLFB#32	R5F10DPGCLFB#32	
	R5F10DMFCLFB#32G	R5F10DPGCLFB#32G	
	R5F10DMFCLFB#32Q	R5F10DPGCLFB#32Q	
	R5F10DMFCLFB#56	R5F10DPGCLFB#56	
	R5F10DMFCLFB#56G	R5F10DPGCLFB#56G	
	R5F10DMFCLFB#56Q	R5F10DPGCLFB#56Q	
	R5F10DMGCLFB#12	R5F10DPJCLFB#12	
	R5F10DMGCLFB#12G	R5F10DPJCLFB#12G	
	R5F10DMGCLFB#12Q	R5F10DPJCLFB#12Q	
	R5F10DMGCLFB#32	R5F10DPJCLFB#32	
	R5F10DMGCLFB#32G	R5F10DPJCLFB#32G	
	R5F10DMGCLFB#32Q	R5F10DPJCLFB#32Q	
	R5F10DMGCLFB#56	R5F10DPJCLFB#56	
	R5F10DMGCLFB#56G	R5F10DPJCLFB#56G	
	R5F10DMGCLFB#56Q	R5F10DPJCLFB#56Q	
	R5F10DMJCLFB#12		
	R5F10DMJCLFB#12G		
	R5F10DMJCLFB#12Q		
	R5F10DMJCLFB#32		
	R5F10DMJCLFB#32G		
	R5F10DMJCLFB#32Q		
	R5F10DMJCLFB#56		
	R5F10DMJCLFB#56G		
	R5F10DMJCLFB#56Q		

RL78/D1A series : Automotive Grade Level Grade2

48pin, Grade2	48pin, Grade2	64pin, Grade2	64pin, Grade2
R5F10CGBCL***FB12	R5F10DGCCL***FB12	R5F10CLDCL***FB12	R5F10DLCL***FB12
R5F10CGBCL***FB12G	R5F10DGCCL***FB12G	R5F10CLDCL***FB12G	R5F10DLCL***FB12G
R5F10CGBCL***FB12Q	R5F10DGCCL***FB12Q	R5F10CLDCL***FB12Q	R5F10DLCL***FB12Q
R5F10CGBCL***FB32	R5F10DGCCL***FB32	R5F10CLDCL***FB32	R5F10DLCL***FB32
R5F10CGBCL***FB32G	R5F10DGCCL***FB32G	R5F10CLDCL***FB32G	R5F10DLCL***FB32G
R5F10CGBCL***FB32Q	R5F10DGCCL***FB32Q	R5F10CLDCL***FB32Q	R5F10DLCL***FB32Q
R5F10CGBCL***FB56	R5F10DGCCL***FB56	R5F10CLDCL***FB56	R5F10DLCL***FB56
R5F10CGBCL***FB56G	R5F10DGCCL***FB56G	R5F10CLDCL***FB56G	R5F10DLCL***FB56G
R5F10CGBCL***FB56Q	R5F10DGCCL***FB56Q	R5F10CLDCL***FB56Q	R5F10DLCL***FB56Q
R5F10CGCCL***FB12	R5F10DGDCL***FB12		R5F10DLECL***FB12
R5F10CGCCL***FB12G	R5F10DGDCL***FB12G		R5F10DLECL***FB12G
R5F10CGCCL***FB12Q	R5F10DGDCL***FB12Q		R5F10DLECL***FB12Q
R5F10CGCCL***FB32	R5F10DGDCL***FB32		R5F10DLECL***FB32
R5F10CGCCL***FB32G	R5F10DGDCL***FB32G		R5F10DLECL***FB32G
R5F10CGCCL***FB32Q	R5F10DGDCL***FB32Q		R5F10DLECL***FB32Q
R5F10CGCCL***FB56	R5F10DGDCL***FB56		R5F10DLECL***FB56
R5F10CGCCL***FB56G	R5F10DGDCL***FB56G		R5F10DLECL***FB56G
R5F10CGCCL***FB56Q	R5F10DGDCL***FB56Q		R5F10DLECL***FB56Q
R5F10CGDCL***FB12	R5F10DGECL***FB12		
R5F10CGDCL***FB12G	R5F10DGECL***FB12G		
R5F10CGDCL***FB12Q	R5F10DGECL***FB12Q		
R5F10CGDCL***FB32	R5F10DGECL***FB32		
R5F10CGDCL***FB32G	R5F10DGECL***FB32G		
R5F10CGDCL***FB32Q	R5F10DGECL***FB32Q		
R5F10CGDCL***FB56	R5F10DGECL***FB56		
R5F10CGDCL***FB56G	R5F10DGECL***FB56G		
R5F10CGDCL***FB56Q	R5F10DGECL***FB56Q		

*** means ROM code

RL78/D1A series : Automotive Grade Level Grade2

80pin, Grade2	80pin, Grade2	100pin, Grade2	100pin, Grade2
R5F10CMDCL***FB12	R5F10DMDCL***FB12	R5F10DPECL***FB12	R5F10TPJCL***FB12
R5F10CMDCL***FB12G	R5F10DMDCL***FB12G	R5F10DPECL***FB12G	R5F10TPJCL***FB12G
R5F10CMDCL***FB12Q	R5F10DMDCL***FB12Q	R5F10DPECL***FB12Q	R5F10TPJCL***FB12Q
R5F10CMDCL***FB32	R5F10DMDCL***FB32	R5F10DPECL***FB32	R5F10TPJCL***FB32
R5F10CMDCL***FB32G	R5F10DMDCL***FB32G	R5F10DPECL***FB32G	R5F10TPJCL***FB32G
R5F10CMDCL***FB32Q	R5F10DMDCL***FB32Q	R5F10DPECL***FB32Q	R5F10TPJCL***FB32Q
R5F10CMDCL***FB56	R5F10DMDCL***FB56	R5F10DPECL***FB56	R5F10TPJCL***FB56
R5F10CMDCL***FB56G	R5F10DMDCL***FB56G	R5F10DPECL***FB56G	R5F10TPJCL***FB56G
R5F10CMDCL***FB56Q	R5F10DMDCL***FB56Q	R5F10DPECL***FB56Q	R5F10TPJCL***FB56Q
R5F10CMECL***FB12	R5F10DMECL***FB12	R5F10DPFCL***FB12	R5F1Z3PJCL***FB12
R5F10CMECL***FB12G	R5F10DMECL***FB12G	R5F10DPFCL***FB12G	R5F1Z3PJCL***FB12G
R5F10CMECL***FB12Q	R5F10DMECL***FB12Q	R5F10DPFCL***FB12Q	R5F1Z3PJCL***FB32
R5F10CMECL***FB32	R5F10DMECL***FB32	R5F10DPFCL***FB32	R5F1Z3PJCL***FB32G
R5F10CMECL***FB32G	R5F10DMECL***FB32G	R5F10DPFCL***FB32G	R5F1Z3PJCL***FB56
R5F10CMECL***FB32Q	R5F10DMECL***FB32Q	R5F10DPFCL***FB32Q	R5F1Z3PJCL***FB56G
R5F10CMECL***FB56	R5F10DMECL***FB56	R5F10DPFCL***FB56	
R5F10CMECL***FB56G	R5F10DMECL***FB56G	R5F10DPFCL***FB56G	
R5F10CMECL***FB56Q	R5F10DMECL***FB56Q	R5F10DPFCL***FB56Q	
	R5F10DMFCL***FB12	R5F10DPGCL***FB12	
	R5F10DMFCL***FB12G	R5F10DPGCL***FB12G	
	R5F10DMFCL***FB12Q	R5F10DPGCL***FB12Q	
	R5F10DMFCL***FB32	R5F10DPGCL***FB32	
	R5F10DMFCL***FB32G	R5F10DPGCL***FB32G	
	R5F10DMFCL***FB32Q	R5F10DPGCL***FB32Q	
	R5F10DMFCL***FB56	R5F10DPGCL***FB56	
	R5F10DMFCL***FB56G	R5F10DPGCL***FB56G	
	R5F10DMFCL***FB56Q	R5F10DPGCL***FB56Q	
	R5F10DMGCL***FB12	R5F10DPJCL***FB12	
	R5F10DMGCL***FB12G	R5F10DPJCL***FB12G	
	R5F10DMGCL***FB12Q	R5F10DPJCL***FB12Q	
	R5F10DMGCL***FB32	R5F10DPJCL***FB32	
	R5F10DMGCL***FB32G	R5F10DPJCL***FB32G	
	R5F10DMGCL***FB32Q	R5F10DPJCL***FB32Q	
	R5F10DMGCL***FB56	R5F10DPJCL***FB56	
	R5F10DMGCL***FB56G	R5F10DPJCL***FB56G	
	R5F10DMGCL***FB56Q	R5F10DPJCL***FB56Q	
	R5F10DMJCL***FB12		
	R5F10DMJCL***FB12G		
	R5F10DMJCL***FB12Q		
	R5F10DMJCL***FB32		
	R5F10DMJCL***FB32G		
	R5F10DMJCL***FB32Q		
	R5F10DMJCL***FB56		
	R5F10DMJCL***FB56G		
	R5F10DMJCL***FB56Q		

*** means ROM code

Qualification Test Results (Grade1,Grade2,Grade3)

Q100 Qualification Test Results

[Note : Qualification tests were performed using a representative product with the same wafer process and the same package structure .]

Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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TEST GROUP A – ACCELERATED ENVIRONMENT STRESS TESTS

PC	A1	JESD22 A113 J-STD-020	Preconditioning: (Test @ Rm) SMD only; Moisture Preconditioning for THB/HAST, AC/UHST, TC, &PTC ; Peak Reflow Temp=260°C	Min.MSL=3			MSL=3	Resin A Resin B
THB or HAST	A2	JESD22 A101	Temperature Humidity Bias: (Test @ Rm/Hot) Ta=85°C, RH=85%, 1000hrs	3 1	77	231 77	0 of 231 0 of 77	Resin A Resin B
AC or UHST or TH	A3	JESD22 A118	Unbiased Highly Accelerated Stree Test: (Test @ Rm) Ta=110°C, 85% RH, 264h	3 1	77	231 77	0 of 231 0 of 77	Resin A Resin B
TC	A4	JESD22 A104	Temperature Cycle: (Test @ Hot) Ta=-65°C to 150°C, 500cyc or Ta=-55°C to 150°C, 1000cyc	3 1	77	231 77	0 of 231 0 of 77 0 Fails after TC (WBP)	Resin A Resin B
PTC	A5	JESD22 A105	Power Temperature Cycle: (Test @ Rm/Hot) Ta=-40°C to 125°C, 1000cyc	1 1	45	45 45	0 of 45 0 of 45	Resin A Resin B * Applicable products only
HTSL	A6	JESD22 A103	High Temperature Storage Life: (Test @ Rm/Hot) Ta=150°C, 1000hrs or Ta=175°C, 500hrs	1 1	45	45 45	0 of 45 0 of 45	Resin A Resin B

TEST GROUP B – ACCELERATED LIFETIME SIMULATION TESTS

HTOL	B1	JESD22 A108	High Temp Operating Life: (Test @ Rm/Cold/Hot) Ta=150°C, 1000hrs or Ta=125°C, 1000hrs	3 1	77	231 77	0 of 231 0 of 77	Resin A Resin B	
ELFR	B2	AEC-Q100-008	Early Life Failure Rate: (Test @ Rm/Hot) Ta=125°C, 48hrs	3 1	800	2400 800	0 of 2400 0 of 800	Resin A Resin B	
EDR	B3	AEC-Q100-005	NVM Endurance & Data Retention Test: (Test @ Rm/Hot)	For HTOL	3	77	231	0 of 231	-
				For HTSL	1	45	45	0 of 45	-

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Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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TEST GROUP C – PACKAGE ASSEMBLY INTEGRITY TESTS

WBS	C1	AEC-Q100-001 AEC-Q003	Wire Bond Shear Test: (Cpk > 1.67)	30 bonds	5 parts Min.	30 bonds	0 of 30bonds	Cpk>1.67
WBP	C2	Mil-STD-883 Method 2011 AEC-Q003	Wire Bond Pull: (Cpk > 1.67); Each bonder used	30 bonds	5 parts Min.	30 bonds	0 of 30bonds	Cpk>1.67
SD	C3	JESD22 B102 JSTD-002D	Solderability: (>95% coverage) 8 hr steam aging prior to testing	1 1	15	15 15	0 of 15 0 of 15	Resin A Resin B
PD	C4	JESD22 B100, JESD22 B108 AEC-Q003	Physical Dimensions: (Cpk > 1.67)	3 1	10	30 10	0 of 30 0 of 10	Resin A Cpk>1.67 Resin B Cpk>1.67
SBS	C5	AEC-Q100-010 AEC-Q003	Solder Ball Shear: (Cpk > 1.67); 5 balls from min. of 10 devices	-	-	-	-	N/A
LI	C6	JESD22 B105	Lead Integrity: (No lead cracking or breaking); Through-hole only; 10 leads from each of 5 devices	-	-	-	-	N/A

TEST GROUP D – DIE FABRICATION RELIABILITY TESTS

EM	D1	JESD61	Electromigration:	-	-	-	Pass	Confirmed by process TEG
TDDDB	D2	JESD35	Time Dependant Dielectric Breakdown:	-	-	-	Pass	Confirmed by process TEG
HCI	D3	JESD60 & 28	Hot Carrier Injection:	-	-	-	Pass	Confirmed by process TEG
NBTI	D4	JESD90	Negative Bias Temperature Instability:	-	-	-	Pass	Confirmed by process TEG
SM	D5	JESD61,87 & 202	Stress Migration:	-	-	-	Pass	Confirmed by process TEG

Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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TEST GROUP E- ELECTRICAL VERIFICATION

TEST	E1	User/Supplier Specification	Pre and Post Stress Electrical Test:	All	All	All	0 of All	-
HBM	E2	AEC-Q100-002	Electrostatic Discharge, Human Body Model: (Test @ Rm/Hot); (2KV HBM / Class 2 or better)	1	3	3	0 of 3 ESD Level= HBM:2	HBM>2KV
CDM	E3	AEC-Q100-011	Electrostatic Discharge, Charged Device Model: (Test @ Rm/Hot); (750V corner leads, 500V all other leads / Class C4B or better)	1	3	3	0 of 3 ESD Level= CDM:C4B	Corner leads: 750V Pass All other leads:500V Pass
LU	E4	AEC-Q100-004	Latch-Up: (Test @ Rm/Hot)	1	6	6	0 of 6	-
ED	E5	AEC-Q100-009 AEC-Q003	Electrical Distributions: (Test @ Rm/Hot/Cold) (where applicable, Cpk>1.67)	3	30	90	Cpk>1.67	-
FG	E6	AEC-Q100-007	Fault Grading:	-	-	-	>98%	-
CHAR	E7	AEC-Q003	Characterization: (Test @ Rm/Hot/Cold)	-	-	-	Pass	According to Renesas standard procedure
EMC	E9	SAE J1752/3	Electromagnetic Compatibility (Radiated Emissions)	1	1	1	0 of 1	-
SC	E10	AEC Q100-012	Short Circuit Characterization	-	-	-	-	N/A
SER	E11	JESD89-1 JESD89-2 JESD89-3	Soft Error Rate	1	3	3	Pass	* Applicable product only
LF	E12	AEC-Q005	Lead (Pb) Free: (see AEC-Q005)	-	-	-	Pass	Solderability: See SD (C3) result. Solder heat resistance: N/A (Wave Solder is Not recommended.) Whisker: Performed on product TEG with test method based on JESD201.

Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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TEST GROUP F – DEFECT SCREENING TESTS

PAT	F1	AEC-Q001	Process Average Testing: (see AEC-Q001)	All	All	All	Reject units outside PAT limits	Apply to mass production according to Renesas standard procedure
SBA	F2	AEC-Q002	Statistical Bin/Yield Analysis: (see AEC-Q002)	All	All	All	Reject units outside criteria	Apply to mass production according to Renesas standard procedure

TEST GROUP G – CAVITY PACKAGE INTEGRITY TESTS (for Ceramic Package testing only)

MS	G1	JESD22 B104	Mechanical Shock: (Test @ Rm)	-	-	-	-	N/A
VFV	G2	JESD22 B103	Variable Frequency Vibration: (Test @ Rm)	-	-	-	-	N/A
CA	G3	MIL-STD-883 Method 2001	Constant Acceleration: (Test @ Rm)	-	-	-	-	N/A
GFL	G4	MIL-STD-883 Method 1014	Gross and Fine Leak:	-	-	-	-	N/A
DROP	G5	-----	Drop Test: (Test @ Rm) MEMS cavity parts only. Drop part on each of 6 axes once from a height of 1.2m onto a concrete surface.	-	-	-	-	N/A
LT	G6	MIL-STD-883 Method 2004	Lid Torque:	-	-	-	-	N/A
DS	G7	MIL-STD-883 Method 2019	Die Shear:	-	-	-	-	N/A
IWV	G8	MIL-STD-883 Method 1018	Internal Water Vapor:	-	-	-	-	N/A

Qualification Test Results (Grade0)

Q100 Qualification Test Results

[Note : Qualification tests were performed using a representative product with the same wafer process and the same package structure .]

Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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TEST GROUP A – ACCELERATED ENVIRONMENT STRESS TESTS

PC	A1	JESD22 A113 J-STD-020	Preconditioning: (Test @ Rm) SMD only; Moisture Preconditioning for THB/HAST, AC/UHST, TC, &PTC ; Peak Reflow Temp=260°C	Min.MSL=3			MSL=3	Resin A Resin B
THB or HAST	A2	JESD22 A101	Temperature Humidity Bias: (Test @ Rm/Hot) Ta=85°C, RH=85%, 1000hrs	3 1	77	231 77	0 of 231 0 of 77	Resin A Resin B
AC or UHST or TH	A3	JESD22 A118	Unbiased Highly Accelerated Stree Test: (Test @ Rm) Ta=110°C, 85% RH, 264h	3 1	77	231 77	0 of 231 0 of 77	Resin A Resin B
TC	A4	JESD22 A104	Temperature Cycle: (Test @ Hot) Ta=-65°C to 150°C, 1000cyc or Ta=-55°C to 150°C, 2000cyc	3 1	77	231 77	0 of 231 0 of 77 0 Fails after TC (WBP)	Resin A Resin B
PTC	A5	JESD22 A105	Power Temperature Cycle: (Test @ Rm/Hot) Ta=-40°C to 150°C, 1000cyc	1 1	45	45 45	0 of 45 0 of 45	Resin A Resin B * Applicable products only
HTSL	A6	JESD22 A103	High Temperature Storage Life: (Test @ Rm/Hot) Ta=150°C, 2000hrs or Ta=175°C, 1000hrs	1 1	45	45 45	0 of 45 0 of 45	Resin A Resin B

TEST GROUP B – ACCELERATED LIFETIME SIMULATION TESTS

HTOL	B1	JESD22 A108	High Temp Operating Life: (Test @ Rm/Cold/Hot) Ta=150°C, 1000hrs	3 1	77	231 77	0 of 231 0 of 77	Resin A Resin B	
ELFR	B2	AEC-Q100-008	Early Life Failure Rate: (Test @ Rm/Hot) Ta=150°C, 48hrs	3 1	800	2400 800	0 of 2400 0 of 800	Resin A Resin B	
EDR	B3	AEC-Q100-005	NVM Endurance & Data Retention Test: (Test @ Rm/Hot)	For HTOL	3	77	231	0 of 231	-
				For HTSL	1	45	45	0 of 45	-

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Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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TEST GROUP C – PACKAGE ASSEMBLY INTEGRITY TESTS

WBS	C1	AEC-Q100-001 AEC-Q003	Wire Bond Shear Test: (Cpk > 1.67)	30 bonds	5 parts Min.	30 bonds	0 of 30bonds	Cpk>1.67
WBP	C2	Mil-STD-883 Method 2011 AEC-Q003	Wire Bond Pull: (Cpk > 1.67); Each bonder used	30 bonds	5 parts Min.	30 bonds	0 of 30bonds	Cpk>1.67
SD	C3	JESD22 B102 JSTD-002D	Solderability: (>95% coverage) 8 hr steam aging prior to testing	1 1	15	15 15	0 of 15 0 of 15	Resin A Resin B
PD	C4	JESD22 B100, JESD22 B108 AEC-Q003	Physical Dimensions: (Cpk > 1.67)	3 1	10	30 10	0 of 30 0 of 10	Resin A Cpk>1.67 Resin B Cpk>1.67
SBS	C5	AEC-Q100-010 AEC-Q003	Solder Ball Shear: (Cpk > 1.67); 5 balls from min. of 10 devices	-	-	-	-	N/A
LI	C6	JESD22 B105	Lead Integrity: (No lead cracking or breaking); Through-hole only; 10 leads from each of 5 devices	-	-	-	-	N/A

TEST GROUP D – DIE FABRICATION RELIABILITY TESTS

EM	D1	JESD61	Electromigration:	-	-	-	Pass	Confirmed by process TEG
Tddb	D2	JESD35	Time Dependant Dielectric Breakdown:	-	-	-	Pass	Confirmed by process TEG
HCI	D3	JESD60 & 28	Hot Carrier Injection:	-	-	-	Pass	Confirmed by process TEG
NBTI	D4	JESD90	Negative Bias Temperature Instability:	-	-	-	Pass	Confirmed by process TEG
SM	D5	JESD61,87 & 202	Stress Migration:	-	-	-	Pass	Confirmed by process TEG

Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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TEST GROUP E- ELECTRICAL VERIFICATION

TEST	E1	User/Supplier Specification	Pre and Post Stress Electrical Test:	All	All	All	0 of All	-
HBM	E2	AEC-Q100-002	Electrostatic Discharge, Human Body Model: (Test @ Rm/Hot); (2KV HBM / Class 2 or better)	1	3	3	0 of 3 ESD Level= HBM:2	HBM>2KV
CDM	E3	AEC-Q100-011	Electrostatic Discharge, Charged Device Model: (Test @ Rm/Hot); (750V corner leads, 500V all other leads / Class C4B or better)	1	3	3	0 of 3 ESD Level= CDM:C4B	Corner leads: 750V Pass All other leads:500V Pass
LU	E4	AEC-Q100-004	Latch-Up: (Test @ Rm/Hot)	1	6	6	0 of 6	-
ED	E5	AEC-Q100-009 AEC-Q003	Electrical Distributions: (Test @ Rm/Hot/Cold) (where applicable, Cpk>1.67)	3	30	90	Cpk>1.67	-
FG	E6	AEC-Q100-007	Fault Grading:	-	-	-	>98%	-
CHAR	E7	AEC-Q003	Characterization: (Test @ Rm/Hot/Cold)	-	-	-	Pass	According to Renesas standard procedure
EMC	E9	SAE J1752/3	Electromagnetic Compatibility (Radiated Emissions)	1	1	1	0 of 1	-
SC	E10	AEC Q100-012	Short Circuit Characterization	-	-	-	-	N/A
SER	E11	JESD89-1 JESD89-2 JESD89-3	Soft Error Rate	1	3	3	Pass	* Applicable product only
LF	E12	AEC-Q005	Lead (Pb) Free: (see AEC-Q005)	-	-	-	Pass	Solderability: See SD (C3) result. Solder heat resistance: N/A (Wave Solder is Not recommended.) Whisker: Performed on product TEG with test method based on JESD201.

Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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TEST GROUP F – DEFECT SCREENING TESTS

PAT	F1	AEC-Q001	Process Average Testing: (see AEC-Q001)	All	All	All	Reject units outside PAT limits	Apply to mass production according to Renesas standard procedure
SBA	F2	AEC-Q002	Statistical Bin/Yield Analysis: (see AEC-Q002)	All	All	All	Reject units outside criteria	Apply to mass production according to Renesas standard procedure

TEST GROUP G – CAVITY PACKAGE INTEGRITY TESTS (for Ceramic Package testing only)

MS	G1	JESD22 B104	Mechanical Shock: (Test @ Rm)	-	-	-	-	N/A
VFV	G2	JESD22 B103	Variable Frequency Vibration: (Test @ Rm)	-	-	-	-	N/A
CA	G3	MIL-STD-883 Method 2001	Constant Acceleration: (Test @ Rm)	-	-	-	-	N/A
GFL	G4	MIL-STD-883 Method 1014	Gross and Fine Leak:	-	-	-	-	N/A
DROP	G5	-----	Drop Test: (Test @ Rm) MEMS cavity parts only. Drop part on each of 6 axes once from a height of 1.2m onto a concrete surface.	-	-	-	-	N/A
LT	G6	MIL-STD-883 Method 2004	Lid Torque:	-	-	-	-	N/A
DS	G7	MIL-STD-883 Method 2019	Die Shear:	-	-	-	-	N/A
IWV	G8	MIL-STD-883 Method 1018	Internal Water Vapor:	-	-	-	-	N/A