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RENESAS TECHNICAL UPDATE

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Product Category	SRAM		Document No.	TN-M62-B001A/E	Rev.	1.0
Title	Notice about the change of Lead frame material about 32pin SOP. (R1LP0108ESP)		Information Category	Package Change		
	R1LP0108ESN-5SI R1LP0108ESN-7SI R1LP0108ESN-5SR R1LP0108ESN-7SR	Lot No.		Nothing		
Applicable R		All shipped lots after '13/12	Reference Document			

Please be informed that we, Renesas will be proceeding with the change of Lead frame material about 32pin SOP from "Fe-Ni 42Alloy" to "Cu". This scheduled is scheduled as follows. We'd greatly appreciate your kind understanding.

<Details of Change>

We will change the Lead frame material about 32pin SOP from "Fe-Ni 42Alloy" to "Cu"

for improvement of board level reliability.

All package's outline are completely same.

All electrical characteristics are completely same.

The change of Lead frame plating from Sn/Cu(Lead frame material: Fe-Ni 42Alloy) to

Sn(Lead frame material: Cu)

The change of Moisture-proof performance from MS Level 2(Lead frame material: Fe-Ni

42Alloy) to MS Level 3 (Lead frame material: Cu)

<Objective parts>

1Mb (x8) 5V, 32pin SOP : from R1LP0108ESP series to R1LP0108ESN series

<Document and Sample availability>

Datasheet : already available

CS sample : We will start to ship out from Jun. 2013.

Reliability report : Jun.2013

<Launch date of this change>

We will be starting to ship out new Lead frame material parts accordingly from Dec. in 2013. There is a possibility to ship out both current parts series (R1LP0108ESP series) and new parts series (R1LP0108ESN series) in parallel, because of our inventory of current parts series.



< Replaced part name list on this change>

Current part name	Lead frame material	Access Speed	Operating Temp.	
R1LP0108ESP-5SR		55ns	0°C to +70°C	
R1LP0108ESP-7SR	Fo Ni 42 Alloy	70ns	0 0 10 +70 0	
R1LP0108ESP-5SI	Fe-Ni 42Alloy	55ns	-40°C to +85°C	
R1LP0108ESP-7SI		70ns	-40 C to +65 C	



Replaced part name	Lead frame material
R1LP0108ESN-5SR	
R1LP0108ESN-7SR	Cu
R1LP0108ESN-5SI	Cu
R1LP0108ESN-7SI	

<Comparison table of Lead frame plating and Moisture-proof performance>

Current part name	Lead frame material	Lead frame plating	Moisture-proof performance	
R1LP0108ESP-5SR		Sn/Cu	MC LavialO	
R1LP0108ESP-7SR	Fe-Ni 42Allov		MS Level2 Storage condition: 30°C/70%RH or less	
R1LP0108ESP-5SI	FE-INI 42AIIOY			
R1LP0108ESP-7SI			30 0/10/01(11011033	



Replaced part name	Lead frame material	Lead frame plating	Moisture-proof performance
R1LP0108ESN-5SR			MC Level2
R1LP0108ESN-7SR	Cu	Sn	MS Level3
R1LP0108ESN-5SI	Cu	SII	Storage condition : 30°C/70%RH or less
R1LP0108ESN-7SI			00 0/10/01X11011C33

Sincerely yours.