

RENESAS TECHNICAL UPDATE

1753, Shimonumabe, Nakahara-ku, Kawasaki-shi, kanagawa 211-8668 Japan
Renesas Electronics Corporation

Product Category	SRAM		Document No.	TN-M62-B002A/E	Rev.	1.0
Title	Notice about the change of Lead frame material about 32pin SOP. (R1LV0108ESP)		Information Category	Package Change		
Applicable Product	R1LV0108ESN-5SI R1LV0108ESN-7SI R1LV0108ESN-5SR R1LV0108ESN-7SR	Lot No.	Reference Document	Nothing		
		All shipped lots after '13/12				

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) 3V, 32pin SOP : from **R1LV0108ESP** series to **R1LV0108ESN** 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 (R1LV0108ESP series) and new parts series (R1LV0108ESN 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.		Replaced part name	Lead frame material
R1LV0108ESP-5SR	Fe-Ni 42Alloy	55ns	0°C to +70°C		R1LV0108ES N -5SR	Cu
R1LV0108ESP-7SR		70ns			R1LV0108ES N -7SR	
R1LV0108ESP-5SI		55ns	-40°C to +85°C		R1LV0108ES N -5SI	
R1LV0108ESP-7SI		70ns			R1LV0108ES N -7SI	

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

Current part name	Lead frame material	Lead frame plating	Moisture-proof performance
R1LV0108ESP-5SR	Fe-Ni 42Alloy	Sn/Cu	MS Level2 Storage condition : 30°C/70%RH or less
R1LV0108ESP-7SR			
R1LV0108ESP-5SI			
R1LV0108ESP-7SI			



Replaced part name	Lead frame material	Lead frame plating	Moisture-proof performance
R1LV0108ES N -5SR	Cu	Sn	MS Level3 Storage condition : 30°C/70%RH or less
R1LV0108ES N -7SR			
R1LV0108ES N -5SI			
R1LV0108ES N -7SI			

Sincerely yours.