



Final Product/Process Change Notification

Document #: FPCN24294X

Issue Date: 29 Apr 2022

Title of Change:	SPM7 Change of Die Attach Material (Solder Paste to Epoxy).			
Proposed First Ship date:	05 Aug 2022 or earlier if approved by customer			
Contact Information:	Contact your local onsemi Sales Office or Genelyn.Bolivar@onsemi.com			
PCN Samples Contact:	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.			
Additional Reliability Data:	Contact your local onsemi Sales Office or Aileen.Allado@onsemi.com			
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com			
Marking of Parts/ Traceability of Change:	Through Date Code Cut-off			
Change Category:	Assembly Change			
Change Sub-Category(s):	Manufacturing Process Change			
Sites Affected:				
onsemi Sites		External Foundry/Subcon Sites		
onsemi Cebu, Philippines		None		
Description and Purpose:				
Continuous process improvement by changing IC attach material from Solder to Epoxy and removing IC back-metal.				
	Before Change Description	After Change Description		
IC Attach Material	Solder Paste	Conductive Epoxy		
IC Back Metal	With Back Metal	No Back metal		
Marking Change:				
There is no product marking change as a result of this change.				
Reliability Data Summary:				
QV DEVICE NAME: FSB70250				
PACKAGE: SPM7				
RMS #: F81014				
Test	Specification	Condition	Interval	Result
TC + PC	JESD22-A104	Ta= -40°C to +125°	500 cyc	0/231
UHAST+ PC	JESD22-A118	130°C, 85% RH, 18.8psig	96 hrs	0/231
THB + PC	JESD22-A101	Temp = 85C, RH=85%, bias = 100% of rated V or 100V max	1008 hrs	0/231
PC	J STD 020A, JESD22-A113	IR reflow at 245C or 260C (pkg dependant)	-	0/693
RSH	JESD22-B106	Ta = 265°C 10 sec dwell B106	-	0/30



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Electrical Characteristics Summary:

Electrical characteristics are not impacted.

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the **PCN Customized Portal**.

Part Number	Qualification Vehicle
FSB70550	FSB70250
FSB70250	FSB70250
FSB70450	FSB70250