



Final Product/Process Change Notification
 Document #:FPCN23819XA
 Issue Date:28 Dec 2021

Title of Change:	Qualify mold compound EME-G770HM type D for XDFN devices assembled in onsemi Leshan facility.	
Proposed First Ship date:	04 Apr 2022 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office or Jim.Peng@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 c.l.yang@lps.com.cn	
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:	Assembly Date Code	
Change Category:	Assembly Change	
Change Sub-Category(s):	Material Change	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
Leshan Phoenix Semiconductor, China	None	
Description and Purpose:		
Upon the expiration of this PCN, these devices will be built with existing or new mold compound at the same site. Datasheet specifications and product electrical performance remain unchanged. Reliability qualification and full electrical characterization over temperature was performed.		
Material to be change	Before Change Description	After Change Description
Mold Compound	EME-G770HCD Version M	EME-G770HCD Version M EME-G770HM type D
There is no part number and product marking change as a result of this change.		



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Reliability Data Summary:

Qual Vehicle Device: NSVBAS21MX2WT5G

RMS: 77121

Package: X2DFN

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= max, V=100% rated V	1008 hrs	0/231
HTSL	JEDS22- A103	Temp.=150°C,no bias	2016 hrs	0/231
PC	JESD22-A113	MSL 1 @ 260 °C	Before TC, UHASt, HAST, IOL	0/924
HAST	JESD22 A110	130C/85%RH, 80% rated V or 100V max	192 hrs	0/231
TC	JESD22 A104	Ta= - 65°C to +150°C	1000 cyc	0/231
UHASt	JESD22 A118	Ta=130C, 85% RH, no bias	96 hrs	0/231
IOL	MIL-STD-750	Ta=+25°C, delta Tj=100°C, On/off = 2 min	30000 cycs	0/231
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/30

Qual Vehicle Device: NST4617MX2T5G

RMS: 77677

Package: X2DFN

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= max, V=100% rated V	1008 hrs	0/231
HTSL	JEDS22- A103	Temp.=150°C,no bias	2016 hrs	0/231
PC	JESD22-A113	MSL 1 @ 260 °C	Before TC, UHASt, HAST, IOL	0/924
HAST	JESD22 A110	130C/85%RH, 80% rated V or 100V max	192 hrs	0/231
TC	JESD22 A104	Ta= - 65°C to +150°C	1000 cyc	0/231
UHASt	JESD22 A118	Ta=130C, 85% RH, no bias	96 hrs	0/231
IOL	MIL-STD-750	Ta=+25°C, delta Tj=100°C, On/off = 2 min	30000 cycs	0/231
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/30

Qual Vehicle Device: SZNZ8F47VMX2WT5G

RMS: 76656 / 79361

Package: X2DFN

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= max, V=100% rated V	1008 hrs	0/231
HTSL	JEDS22- A103	Temp.=150°C,no bias	2016 hrs	0/231
SSOP	MILSTD750-1	Tj= max, V=100% rated IZ max	2016hrs	0/231
PC	JESD22-A113	MSL 1 @ 260 °C	Before H3TRB, TC, UHASt, IOL	0/924
H3TRB	JESD22-A101	Temp = 85C, RH=85%, bias = 80% of rated V or 100V max	2016 hrs	0/231
TC	JESD22 A104	Ta= - 65°C to +150°C	1000 cyc	0/231
UHASt	JESD22 A118	Ta=130C, 85% RH, no bias	96 hrs	0/231
IOL	MIL-STD-750	Ta=+25°C, delta Tj=100°C, On/off = 2 min	30000 cycs	0/231
RSH	JESD22- B106	Ta = 265C, 10 sec	-	0/30



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Qual Vehicle Device: SNSR201MXT5G

RMS: 77684

Package: X2DFN

Test	Specification	Condition	Interval	Results
HTRB	JESD22-A108	Tj= max, V=100% rated V, 1008 Hrs	1008 hrs	0/231

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
NZ8F9V1SMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F9V1MX2WT5G	SZNZ8F47VMX2WT5G
NZ8F8V2SMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F8V2MX2WT5G	SZNZ8F47VMX2WT5G
NZ8F7V5SMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F7V5MX2WT5G	SZNZ8F47VMX2WT5G
NZ8F6V8SMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F6V8MX2WT5G	SZNZ8F47VMX2WT5G
NZ8F6V2SMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F6V2MX2WT5G	SZNZ8F47VMX2WT5G
NZ8F5V6SMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F5V6MX2WT5G	SZNZ8F47VMX2WT5G
NZ8F5V1SMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F5V1MX2WT5G	SZNZ8F47VMX2WT5G
NZ8F4V7SMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F4V7MX2WT5G	SZNZ8F47VMX2WT5G
NZ8F4V3SMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F4V3MX2WT5G	SZNZ8F47VMX2WT5G
NZ8F47VSMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F47VMX2WT5G	SZNZ8F47VMX2WT5G



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NZ8F3V9SMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F3V9MX2WT5G	SZNZ8F47VMX2WT5G
NZ8F3V6SMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F3V6MX2WT5G	SZNZ8F47VMX2WT5G
NZ8F3V3SMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F3V3MX2WT5G	SZNZ8F47VMX2WT5G
NZ8F3V0SMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F3V0MX2WT5G	SZNZ8F47VMX2WT5G
NZ8F33VSMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F33VMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F2V7SMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F2V7MX2WT5G	SZNZ8F47VMX2WT5G
NZ8F2V4SMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F2V4MX2WT5G	SZNZ8F47VMX2WT5G
NZ8F27VSMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F27VMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F24VSMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F24VMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F22VSMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F22VMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F20VSMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F20VMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F18VSMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F18VMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F16VSMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F16VMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F15VSMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F15VMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F13VSMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F13VMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F12VSMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F12VMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F11VSMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F11VMX2WT5G	SZNZ8F47VMX2WT5G



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NZ8F10VSMX2WT5G	SZNZ8F47VMX2WT5G
NZ8F10VMX2WT5G	SZNZ8F47VMX2WT5G
NSPU3071N2T5G	SZNZ8F47VMX2WT5G
NSPU3061N2T5G	SZNZ8F47VMX2WT5G
NSPU3051N2T5G	SZNZ8F47VMX2WT5G
NSPM3042MXT5G	SZNZ8F47VMX2WT5G
NSPM3041MXT5G	SZNZ8F47VMX2WT5G
NSPM3031MXT5G	SZNZ8F47VMX2WT5G
ESD7410MXWT5G	SZNZ8F47VMX2WT5G
NSDP301MX2WT5G	NSVBAS21MX2WT5G + SNSR201MXT5G
NSR05T404MX2T5G	NSVBAS21MX2WT5G
NSR05T304MX2T5G	NSVBAS21MX2WT5G
NSR02L40MX2WT5G	NSVBAS21MX2WT5G
NSR0240MX2WT5G	NSVBAS21MX2WT5G
NSR0240MX2T5G	NSVBAS21MX2WT5G
SNST3904MX2T5G	NST4617MX2T5G
NST857BMX2T5G	NST4617MX2T5G
NST857AMX2T5G	NST4617MX2T5G
NST847BMX2T5G	NST4617MX2T5G
NST847AMX2T5G	NST4617MX2T5G
NST846BMX2T5G	NST4617MX2T5G
NST4617MX2T5G	NST4617MX2T5G
NST3906MX2T5G	NST4617MX2T5G
NST3904MX2T5G	NST4617MX2T5G

Appendix A: Changed Products

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Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NSPU3061N2T5G		SZNZ8F47VMX2WT5G	NA	
NSPM3042MXT5G		SZNZ8F47VMX2WT5G	NA	
NSPM3031MXT5G		SZNZ8F47VMX2WT5G	NA	
NSPU3051N2T5G		SZNZ8F47VMX2WT5G	NA	