



Initial Product/Process Change Notification

Document # : IPCN22481X

Issue Date: 28 November 2018

Title of Change:	Qualification of new Multilayer Ceramic Capacitors (MLCC) parts for Intelligent Power Module (IPM) of STK984-091series products at ON Semiconductor Vietnam (OSV).	
Proposed First Ship date:	31 May 2019	
Contact Information:	Contact your local ON Semiconductor Sales Office or Mitsuru.Oyagi@onsemi.com	
Samples:	Contact your local ON Semiconductor Sales Office or Tomohiro.Uda@onsemi.com	
Type of Notification:	<p>This is an Initial Product/Process Change Notification (IPCN) sent to customers. IPCNs are typically issued 30 days prior to the issuance of the Final Change Notice (FPCN). An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan.</p> <p>The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact <PCN.Support@onsemi.com></p>	
Change Part Identification:	Date Code	
Change Category:	<input type="checkbox"/> Wafer Fab Change <input type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input checked="" type="checkbox"/> Other <u>MCLL Supplier added.</u>	
Change Sub-Category(s):	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input type="checkbox"/> Manufacturing Site Addition</div> <div style="width: 33%;"><input checked="" type="checkbox"/> Material Change</div> <div style="width: 33%;"><input type="checkbox"/> Datasheet/Product Doc change</div> <div style="width: 33%;"><input type="checkbox"/> Manufacturing Site Transfer</div> <div style="width: 33%;"><input type="checkbox"/> Product specific change</div> <div style="width: 33%;"><input type="checkbox"/> Shipping/Packaging/Marking</div> <div style="width: 33%;"><input type="checkbox"/> Manufacturing Process Change</div> <div style="width: 33%;"><input type="checkbox"/> Other: _____</div> </div>	
Sites Affected:	ON Semiconductor Sites: ON Duong Nai Province, Vietnam	External Foundry/Subcon Sites : None
Description and Purpose:		
<p>This is to inform customers of the Qualification of new Multilayer Ceramic Capacitors (MLCC) parts for Intelligent Power Module (IPM) of STK984-091series products at ON Semiconductor Vietnam (OSV) due to discontinuance of parts in the current supplier.</p> <p>Current Supplier-A (EOL): Murata Manufacturing Co., Ltd. Parts name GRM-Series.</p> <p>Proposed Supplier-B: TDK Corporation. Parts name CGA-Series.</p> <p>There are no change in specification such as Capacitance tolerance, Operating temperature range and dimension.</p>		

**Qualification Plan:**QV DEVICE NAME STK984-091A-EPACKAGE SIP23/SIP2E 2nd

Test	Specification	Condition	Interval
HTSL	JESD22-A103	Ta= 150°C	1000 hrs
HTRB	JESD22-A108	Tj = 150°C	1000 hrs
TC	JESD22-A104	Ta= -40°C to +125°C	1000cyc
AC	JESD22-A102	121°C, 100%RH, 15psig	96hrs
H3TRB	JESD22-A101	85°C, 85% RH, 80% rated V	1000 hrs

Estimated date for qualification completion: 28 February 2019

List of Affected Parts:

Part Number	Qualification Vehicle
STK984-091A-E	STK984-091A-E
STK984-091B-E	