

Worked on:	Michael Madden	on:	2015-01-13
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For integrated circuits or discrete semiconductors select below:
AEC-Q100

PCN number	16548
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Assessment of impact on Supply Chain regarding following aspects - contractual agreements - technical interface of processability/manufacturability of customer - form, fit, function, quality performance, reliability		Remaining risks to the Supply Chain?	Understanding of semiconductors experts	Examples to explain	Remarks / Comments	Device evaluation MATERIAL PERFORMANCE TEST RESULTS (on the basis of AEC-Q100) Includes integrated circuits (e.g. ASICs, µ-Controller, memories, voltage regulators, smart power devices, logic devices, analog devices,...)																													
Type of change:		Yes	No			AEC-Q100																													
Any change with impact on agreed upon contractual agreements		P	P			A, B, C: Depends on change																													
Any change with impact on technical interface or processability/manufacturability of customer		I	P			A, B, C: Depends on change																													
Change of delivered parameters/electrical specification (min./max./typ. values) and/or ACDC specification (1)		P	P			A, B, C: Depends on change																													
Correction of data sheet / errors		I	P			A, B, C: Depends on change																													
Design changes in routing (1)		P	P			A, B, C: Depends on change																													
Tests, which should be considered for the appropriate process change						A, B, C: Depends on change																													
Tests, which should be considered for the appropriate process change after selection of condition table						A, B, C: Depends on change																													
Suppliers performed tests (mark with an 'X' for done or 'Q' for generic)						A, B, C: Depends on change																													
Reason for exception of tests:						A, B, C: Depends on change																													
Date Lockage - Prescale does not perform as part of qualification						A, B, C: Depends on change																													

-	Not required
I	Information table required
P	PCN required

A letter or "*" indicates that performance of that stress test should be considered for the appropriate process change.		
CONNECTIONS	YES	NO
A	Only for peripheral routing	X
B	For typical new oil, new cure time, temp	
C	If bond to leadfinger	
D	Design rule change	
E	Thickness only	
F	MEMS element only	
G	Only from non-100% burned-in parts	
H	Harmful only	
J	EPROM or EEPROM	
K	Passivation only	
M	For devices requiring PTC	X
N	Passivation and gate oxide	
P	Passivation and intermetal dielectric	
Q	Wire diameter decrease	
R	Required for plastic SMD only	X
T	Only for Solder Ball SMD	
A1	Only if the device use CAN, LIN, FLEXRAY	
A2	Only if EMI behaviour is affected	
=> Please mark "YES" or "NO" with a small "x"		