



AEC Q100 Certification of Design, Construction and Qualification		
Supplier Name: NXP Semiconductor	Date: 17 February 2013	Date: 31 March 2023
Item Name	Supplier Response	Supplier Response
1. User's Part Number:	See PPAP	See PPAP
2. Supplier's Part Number/Data Sheet:	MCIMX31CJMN4D Automotive MCIMX31CVMN4D Automotive MCIMX31LCVMN4D Automotive MCIMX31LCVMN4DR2 Automotive	MCIMX31CJMN4D Automotive MCIMX31CVMN4D Automotive MCIMX31LCVMN4D Automotive MCIMX31LCVMN4DR2 Automotive
3. Device Description:	Applications Processor	Applications Processor
4. Wafer/Die Fab Facility & Process ID:		
a. Facility name/plant #:	TSMC12	TSMC12
b. Street address:	8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu. Taiwan 300-77, R.O.C.	8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu. Taiwan 300-77, R.O.C.
c. Country:	Taiwan	Taiwan
8. Wafer/Die:		
a. Wafer Size:	300 mm	300 mm
b. Die family:	i.MX31_Auto	i.MX31_Auto
c. Die mask set revision & name:	0M91E	0M91E
d. Die photo:	Available upon request	Available upon request
9. Die Technology Description:		
a. Wafer/Die process technology:	CMOS90LP - H009HLX6	CMOS90LP - H009HLX6
b. Die channel length (μM):	0	0
c. Die gate length (μM):	0.09 um	0.09 um
d. Die supplier process ID (mask #):	M91E	M91E
e. Number of transistors or gates:	18.2M	18.2M
f. Number of mask steps:	36	36
18. Package:		
a. Type of package (e.g. plastic, ceramic, unpackaged):	19x19mm 0.8mm pitch MAPBGA	19x19mm 0.8mm pitch MAPBGA
b. Ball/lead count:	473	473
c. JEDEC designation (e.g., MS029, MS034, etc)	N/A	N/A
d. Lead (Pb) free (< 1% homogenous material)	Pb-Free (100% matte Sn)	Pb-Free (100% matte Sn)
e. Package outline drawing	67ARE11683D	67ARE11683D
19. Mold Compound:		
a. Plastic mold compound supplier & ID:	Sumitomo G770FL	Sumitomo G770SFL
b. Mold compound type:	Multi-Aromatic Bi-Phenyl, Thermo-set plastic, Halogen-free	Multi-Aromatic Bi-Phenyl, Thermo-set plastic, Halogen-free
c. Flammability rating:	UL 94 V0	UL 94 V0
d. Fire Retardant type/composition	0	0
e. Tg (glass transition temperature) (C):	0	0
f. CTE(above & below Tg) (ppm/ C):	0	0