



ILSI America
 5458 Louie Lane
 Reno, NV 89511
 775-851-8880

12/14/2006

Pb Free Road Map

ILSI America Part Number Series	Pb Free Status RoHS Compliance	Note	Date code of conversion to Pb Free	MSL	JESD97
HC49USM	RoHS Compliant	Currently Pb free	420	*	e1
HC49USM2	RoHS Compliant	Currently Pb free	420	*	e1
HC49USM3	RoHS Compliant	Currently Pb free	420	*	e1
HC49USM5	RoHS Compliant	Currently Pb free	420	*	e1
HC49USM4	RoHS Compliant	Currently Pb free	420	*	e1
HC49USM6	RoHS Compliant	Currently Pb free	420	*	e1
HC49USM8	RoHS Compliant	Currently Pb free	420	*	e1
HC49USM9	RoHS Compliant	Currently Pb free	420	*	e1
IL3S	RoHS Compliant	Currently Pb free	604	2a	e1
IL3M	RoHS Compliant	Currently Pb free	504	2a	e2
IL3R	RoHS Compliant	Currently Pb free	510	2a	e1
IL3X	RoHS Compliant	This device has always been Pb free.	N.A.	***	e4
IL3Y	RoHS Compliant	This device has always been Pb free.	N.A.	*	e4
ILCX03	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ILCX04	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ILCX05	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ILCX07	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ILCX08	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ILCX09	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ILCX10	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ILCX13	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ILCX15	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ILCX16	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ILCX17	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ILCX18	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ILCX19	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4



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HC49U / T	RoHS Compliant	Currently Pb free	420	*	e1
HC49US	RoHS Compliant	Currently Pb free	420	*	e1
HC49US2	RoHS Compliant	Currently Pb free	420	*	e1
HC49US3	RoHS Compliant	Currently Pb free	420	*	e1
UM-1	RoHS Compliant	Currently Pb free	420	*	e4
UM-1N	RoHS Compliant	Currently Pb free	420	*	e4
UM-1S	RoHS Compliant	Currently Pb free	420	*	e1 / e4
UM-4	RoHS Compliant	Currently Pb free	420	*	e4
UM-4S	RoHS Compliant	Currently Pb free	420	*	e1 / e4
UM-5	RoHS Compliant	Currently Pb free	420	*	e4
UM-5S	RoHS Compliant	Currently Pb free	420	*	e1 / e4
26	RoHS Compliant	Currently Pb free	601	*	e2
38	RoHS Compliant	Currently Pb free	601	*	e2
39	RoHS Compliant	Currently Pb free	601	*	e2
ZMD	Resonator exempt via item 7 of the RoHS annex.	* Contains Pb internally, Pb free terminations.	516	**	e1
ZTAS	Resonator exempt via item 7 of the RoHS annex.	* Contains Pb internally, Pb free terminations.	516	**	e1
ZTTS	Resonator exempt via item 7 of the RoHS annex.	* Contains Pb internally, Pb free terminations.	516	**	e1
ZTACV	Resonator exempt via item 7 of the RoHS annex.	* Contains Pb internally, Pb free terminations.	516	**	e1
ZTTCV-MX	Resonator exempt via item 7 of the RoHS annex.	* Contains Pb internally, Pb free terminations.	516	**	e1
ZTA	Resonator exempt via item 7 of the RoHS annex.	* Contains Pb internally, Pb free terminations.	516	2	e1
ZTT	Resonator exempt via item 7 of the RoHS annex.	* Contains Pb internally, Pb free terminations.	516	2	e1
ZTB	Resonator exempt via item 7 of the RoHS annex.	* Contains Pb internally, Pb free terminations.	516	2	e1
IXF	RoHS Compliant	Currently Pb free	604	*	e2



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ISM33	RoHS Compliant	This device has always been Pb free.	N.A.	2	e4
ISM61	RoHS Compliant	Currently Pb free	442	2	e4
ISM65	RoHS Compliant	Currently Pb free	601	2	e4
ISM68	RoHS Compliant	Currently Pb free	601	**	e4
ISM71	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ISM72	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ISM91	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ISM94	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ISM95	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ISM92	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ISM93	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ISM97	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
ISM99	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
HCOH	RoHS Compliant	Not Pb free	N.A.	*	e2
HCOF	RoHS Compliant	Not Pb free	N.A.	*	e2
VCXO I605	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
VCXO I606	RoHS Compliant	Currently Pb free	601	2	e4
VCXO I607	RoHS Compliant	This device has always been Pb free.	601	*	e2
VCXO I202	RoHS Compliant	Currently Pb free	601	*	e2
VCXO I203	RoHS Compliant	Currently Pb free	601	*	e2



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I121	RoHS Compliant	Currently Pb free	601	2	e2
I122	RoHS Compliant	Currently Pb free	601	2	e2
I123	RoHS Compliant	Currently Pb free	601	2	e2
I124	RoHS Compliant	Currently Pb free	601	2	e2
I321	RoHS Compliant	Currently Pb free	601	2	e2
I322	RoHS Compliant	Currently Pb free	601	2	e2
I323	RoHS Compliant	Currently Pb free	601	2	e2
I324	RoHS Compliant	Currently Pb free	601	2	e2
I521	RoHS Compliant	Currently Pb free	601	2	e2
I522	RoHS Compliant	Currently Pb free	601	2	e2
I523	RoHS Compliant	Currently Pb free	601	2	e4
I524	RoHS Compliant	Currently Pb free	601	2	e4
I525	RoHS Compliant	Currently Pb free	601	2	e2
I526	RoHS Compliant	Currently Pb free	601	2	e2
I531	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
I533	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
I535	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
I537	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
I721	RoHS Compliant	Currently Pb free	601	2	e2
I722	RoHS Compliant	Currently Pb free	601	2	e2
I723	RoHS Compliant	Currently Pb free	601	2	e4
I724	RoHS Compliant	Currently Pb free	601	2	e4
I1725	RoHS Compliant	Currently Pb free	601	2	e2
I726	RoHS Compliant	Currently Pb free	601	2	e2
I731	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
I733	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
I735	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4
I737	RoHS Compliant	This device has always been Pb free.	N.A.	**	e4

* - Metal hermetic package, JEDEC 020 does not apply

** - Ceramic hermetic package, JEDEC 020 does not apply

*** - Glass hermetic package, JEDEC 020 does not apply

Pb Free means <1000 ppm Pb, RoHS compliant.