

Supplier Name: Texas Instruments Inc. (DUNS# 00-732-1904)
 Contact Info: ti.com/support
 Form/Declaration Type: Distribute - RoHS and IEC 62474 DB
 Created on: 06/14/2022

Details for "DS92LV040ATLQA/NOPB"

Current Product Information

TI part number	Lead finish/Ball material	MSL rating/peak reflow	Assembly site	Package Pins	Package body size (mm)	Total device mass (mg)*
DS92LV040ATLQA/NOPB	SN	Level-2-260C-1 YEAR	Texas Instruments Electronics	NJN 44	7 x 7 x 0.8	110.3

*Total Device Mass
 The summary mass is a rounded value and will be within approximately +/- 10% of the detailed mass value.

Environmental Ratings Information

RoHS	REACH	Green	IEC 62474 DB
Yes	Yes	Yes	Yes

Component Information

Component	Substance	CAS Number	Amount (mg)	Homogeneous Material Level		Component Level	
				Percentage %	ppm	Percentage %	ppm
Bond Wire							
Copper and Its Alloys	Copper	7440-50-8	0.619064	98.733975	987340	0.561048	5610
Nickel and Its Alloys	Nickel	7440-02-0	0.000003	0.000478	5	0.000003	0
Not Categorized	Proprietary Materials		0.000069	0.011005	110	0.000063	1
Precious Metals	Gold	7440-57-5	0.000135	0.021531	215	0.000122	1
Precious Metals	Palladium	7440-05-3	0.007713	1.23014	12301	0.00699	70
Precious Metals	Silver	7440-22-4	0.000018	0.002871	29	0.000016	0
Sub-Total			0.627002	100	1000000	0.568242	5682
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.707442	75	750000	0.641144	6411
Thermoplastics	Epoxy	85954-11-6	0.235814	25	250000	0.213715	2137
Sub-Total			0.943256	100	1000000	0.854859	8549
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	44.709933	95.87	958700	40.51993	405199
Copper and Its Alloys	Iron	7439-89-6	1.10061	2.360001	23600	0.997466	9975
Copper and Its Alloys	Phosphorus	7723-14-0	0.013991	0.03	300	0.01268	127
Precious Metals	Silver	7440-22-4	0.755503	1.62	16200	0.684701	6847
Zinc and Its Alloys	Zinc	7440-66-6	0.055963	0.12	1200	0.050718	507
Sub-Total			46.636	100	1000000	42.265495	422655
Lead Frame Plating							
Other Nonferrous Metals and Alloys	Tin	7440-31-5	2.665	100	1000000	2.415249	24152
Sub-Total			2.665	100	1000000	2.415249	24152
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	51.67352	90.499999	905000	46.830951	468310
Thermoplastics	Epoxy	85954-11-6	5.424296	9.500001	95000	4.915957	49160
Sub-Total			57.097848	100	1000000	51.746908	517469
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	2.371493	100	1000000	2.149248	21492
Sub-Total			2.371493	100	1000000	2.149248	21492
Total			110.340599			100	1000000

Important Note
 The ppm calculations are at the **homogeneous material** level and are maximum concentration values. The ppm displayed represents the **homogeneous material** with the highest ppm for that substance. The amount (mg) calculations represent the maximum total amount of each substance within the component.
 The ppm calculations are at the **component** level and are average concentration values. The amount (mg) calculations represent the average total amount of each substance within the **component**.
[See Glossary of Terms for more details.](#)

Important Part Information
 There is a remote possibility the Customer Part Number (CPN) your company uses could reference more than one TI part number. This is due to two or more users (EMSi or subcontractors) using the same CPN for different TI part numbers. If this occurs, please check your Customer Part Number and cross reference it with the TI part number seen on this page.

Product Content Methodology
[For an explanation of the methods used to determine material weights, See Product Content Methodology](#)

Material Declaration Certificate for Semiconductor IC Packaged Products

TI certifies that the material content information provided by TI is representative and accurate to the best of their knowledge based on material information provided by its suppliers and their combination into finished IC packaged products. TI semiconductor products designated to be "Pb-free", "Green" or "RoHS Exempt" fully meets the latest EU RoHS Directive requirements along with other legislation as seen in the former JIG-101 list that has been transferred to the IEC 62474 database.

Important Information/Disclaimer

TI bases its material content information on information provided by third-party suppliers and has taken, and continues to take, reasonably diligent steps to provide any required or available information. TI may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. TI and TI suppliers may consider certain information to be proprietary, and thus certain information may not be available for release by TI. The material content information is provided by TI "as is."
[For additional information, please contact TI customer support.](#)

[Signature: \(click here for a fuller statement with a signed certificate\)](#)

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 For further environmental statements, please go to www.ti.com/ecoinfo
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RoHS: Means TI semiconductor products that are compliant with the current RoHS requirement that the maximum concentration values of the ten substances listed in RoHS Annex II do not exceed 0.1 % by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI semiconductor products labeled as "RoHS Compliant" are suitable for use in specified lead-free processes. TI may also reference these types of semiconductor products as "Pb-Free." These TI semiconductor products are also fully compliant with GADSL and the IEC 62474 database for electronic requirements.

RoHS Exempt: Means TI semiconductor products that contain lead (Pb) above the RoHS Annex II threshold, but that fall within one of the specific RoHS exemptions noted above or documented in <http://www.ti.com/lit/pdf/szzq088>

Green: Means the content of Chlorine (Cl) and Bromine (Br)-based flame retardants meet JS709B low halogen requirements of <=1 000ppm threshold; Antimony trioxide (Sb2O3) contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.