

Supplier Name: Texas Instruments Inc. (DUNS# 00-732-1904)  
 Contact Info: [ti.com/support](http://ti.com/support)  
 Form/Declaration Type: Distribute - RoHS and IEC 62474 DB  
 Created on: 06/02/2022

Details for "LP38691SDX-ADJ/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)*
LP38691SDX-ADJ/NOPB	SN	Level-1-260C-UNLIM	Texas Instruments Electronics	NGG   6	3 x 3 x 0.8	19.2

\*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
<b>Bond Wire</b>							
Copper and Its Alloys	Copper	7440-50-8	0.037816	98.736292	987363	0.196713	1967
Not Categorized	Proprietary Materials		0.000004	0.010444	104	0.000021	0
Precious Metals	Gold	7440-57-5	0.000008	0.020888	209	0.000042	0
Precious Metals	Palladium	7440-05-3	0.000471	1.229765	12298	0.00245	25
Precious Metals	Silver	7440-22-4	0.000001	0.002611	26	0.000005	0
Sub-Total			<b>0.0383</b>	<b>100</b>	<b>1000000</b>	<b>0.199231</b>	<b>1992</b>
<b>Die Attach Adhesive</b>							
Precious Metals	Silver	7440-22-4	0.320515	75.000058	750001	1.66727	16673
Thermoplastics	Epoxy	85954-11-6	0.106838	24.999942	249999	0.555755	5558
Sub-Total			<b>0.427353</b>	<b>100</b>	<b>1000000</b>	<b>2.223024</b>	<b>22230</b>
<b>Lead Frame</b>							
Copper and Its Alloys	Copper	7440-50-8	7.455156	95.8	958000	38.780571	387806
Copper and Its Alloys	Iron	7439-89-6	0.183655	2.359997	23600	0.955345	9553
Copper and Its Alloys	Phosphorus	7723-14-0	0.002335	0.030005	300	0.012146	121
Precious Metals	Silver	7440-22-4	0.132294	1.7	17000	0.688173	6882
Zinc and Its Alloys	Zinc	7440-66-6	0.00856	0.109997	1100	0.044528	445
Sub-Total			<b>7.782</b>	<b>100</b>	<b>1000000</b>	<b>40.480763</b>	<b>404808</b>
<b>Lead Frame Plating</b>							
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.1	100	1000000	0.520185	5202
Sub-Total			<b>0.1</b>	<b>100</b>	<b>1000000</b>	<b>0.520185</b>	<b>5202</b>
<b>Mold Compound</b>							
Other Inorganic Materials	Fused Silica	60676-86-0	8.870682	90.499996	905000	46.143919	461439
Thermoplastics	Epoxy	85954-11-6	0.931177	9.500004	95000	4.843839	48438
Sub-Total			<b>9.801859</b>	<b>100</b>	<b>1000000</b>	<b>50.987758</b>	<b>509878</b>
<b>Semiconductor Device</b>							
Ceramics / Glass	Doped Silicon	7440-21-3	1.074434	100	1000000	5.58904	55890
Sub-Total			<b>1.074434</b>	<b>100</b>	<b>1000000</b>	<b>5.58904</b>	<b>55890</b>
<b>Total</b>			<b>19.223946</b>			<b>100</b>	<b>1000000</b>

**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."  
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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](http://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.