

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: 06/02/2022

Details for "LP2981IMSX-5.0/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)*
LP2981IMSX-5.0/NOPB	SN	Level-1-260C-UNLIM	Texas Instruments Electronics	DBV 5	2.9 x 1.6 x 1.45	18.2

*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
Bond Wire							
Copper and Its Alloys	Copper	7440-50-8	0.011942	100	1000000	0.065785	658
Sub-Total			0.011942	100	1000000	0.065785	658
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.151911	75	750000	0.836832	8368
Thermoplastics	Epoxy	85954-11-6	0.050637	25	250000	0.278944	2789
Sub-Total			0.202548	100	1000000	1.115776	11158
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	5.436408	96.509995	965100	29.947535	299475
Copper and Its Alloys	Iron	7439-89-6	0.134065	2.379993	23800	0.738524	7385
Copper and Its Alloys	Phosphorus	7723-14-0	0.00169	0.030002	300	0.00931	93
Precious Metals	Silver	7440-22-4	0.054077	0.960004	9600	0.297894	2979
Zinc and Its Alloys	Zinc	7440-66-6	0.00676	0.120007	1200	0.037239	372
Sub-Total			5.633	100	1000000	31.030501	310305
Lead Frame Plating							
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.7	100	1000000	3.856089	38561
Sub-Total			0.7	100	1000000	3.856089	38561
Mold Compound							
Other Inorganic Materials	Silica	7631-86-9	9.686863	88.699999	887000	53.362011	533620
Other Nonferrous Metals and Alloys	Metal Hydroxide	Trade Secret	0.327628	3.000001	30000	1.804804	18048
Other Plastics and Rubber	Carbon Black	1333-86-4	0.032763	0.300002	3000	0.180482	1805
Thermoplastics	Epoxy	85954-11-6	0.873674	7.999998	80000	4.812807	48128
Sub-Total			10.920928	100	1000000	60.160104	601601
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.684689	100	1000000	3.771746	37717
Sub-Total			0.684689	100	1000000	3.771746	37717
Total			18.153107			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: [\(click here for a fuller statement with a signed certificate\)](#)

Name/Title: Hubie Payne, Vice President, Worldwide 5C Quality
 For further environmental statements, please go to www.ti.com/ecoinfo
 Created on: 06/02/2022

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/szqq088>

Green: Means the content of Chlorine (Cl) and Bromine (Br)-based flame retardants meet J5709B 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.