

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: **05/31/2022**

Details for "LM2591HVT-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)*
LM2591HVT-5.0/NOPB	SN	Level-1-NA-UNLIM	Texas Instruments Electronics	NDH 5	14.99 x 10.16 x 4.57	2589.9

*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	0.711291	99.993112	999931	0.027464	275
Copper and Its Alloys	Iron	7439-89-6	0.000006	0.000843	8	0	0
Nickel and Its Alloys	Nickel	7440-02-0	0.000011	0.001546	15	0	0
Other Inorganic Materials	Sulfur	7704-34-9	0.000002	0.000281	3	0	0
Other Nonferrous Metals and Alloys	Manganese	7439-96-5	0.000009	0.001265	13	0	0
Precious Metals	Silver	7440-22-4	0.000021	0.002952	30	0.000001	0
Sub-Total			0.71134	100	1000000	0.027465	275
Die Attach Adhesive							
Other Nonferrous Metals and Alloys	Antimony	7440-36-0	0.165161	10.000006	100000	0.006377	64
Other Nonferrous Metals and Alloys	Tin	7440-31-5	1.073546	65.000009	650000	0.041451	415
Precious Metals	Silver	7440-22-4	0.412902	24.999985	250000	0.015942	159
Sub-Total			1.651609	100	1000000	0.063777	638
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	1218.326441	99.844	998440	47.040599	470406
Copper and Its Alloys	Phosphorus	7723-14-0	0.073214	0.006	60	0.002827	28
Other Nonferrous Metals and Alloys	Tin	7440-31-5	1.830345	0.15	1500	0.070671	707
Sub-Total			1220.23	100	1000000	47.114097	471141
Lead Frame Plating							
Other Nonferrous Metals and Alloys	Tin	7440-31-5	30.54	100	1000000	1.179175	11792
Sub-Total			30.54	100	1000000	1.179175	11792
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	1182.699063	89	890000	45.664996	456650
Other Nonferrous Metals and Alloys	Metal Hydroxide	Trade Secret	39.866261	3	30000	1.53927	15393
Thermoplastics	Epoxy	85954-11-6	106.310028	8	80000	4.104719	41047
Sub-Total			1328.875352	100	1000000	51.308984	513090
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	7.938418	100	1000000	0.306509	3065
Sub-Total			7.938418	100	1000000	0.306509	3065
Total			2589.946719			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's 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 (Sb203) contained in halogen based flame retardant materials meets the <=1.000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.