#### Supplier Name: Texas Instruments Inc. (DUNS# 00-732-1904) Contact Info: ti.com/support Distribute - RoHS and IEC 62474 DB Form/Declaration Type: Created on: 05/29/2022

## Details for "DS90LV028AHMX/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)*
DS90LV028AHMX/NOPB	SN	Level-1-260C-UNLIM	Texas Instruments Electronics	D   8	4.9 x 3.9 x 1.75	82.2

## \*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**

				Homogeneous Material Level		Component Level	-
Component	Substance	CAS Number	Amount (mg)	Percentage %	ppm	Percentage %	ppm
Bond Wire							
Precious Metals	Gold	7440-57-5	0.093878	100	1000000	0.11423	1142
Sub-Total			0.093878	100	1000000	0.11423	1142
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.215532	75	750000	0.262257	2623
Thermoplastics	Epoxy	85954-11-6	0.071844	25	250000	0.087419	874
Sub-Total			0.287376	100	1000000	0.349676	3497
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	20.03484	96.6	966000	24.378208	243782
Copper and Its Alloys	Iron	7439-89-6	0.493612	2.38	23800	0.600623	6006
Copper and Its Alloys	Phosphorus	7723-14-0	0.006222	0.03	300	0.007571	76
Precious Metals	Silver	7440-22-4	0.180438	0.87	8700	0.219555	2196
Zinc and Its Alloys	Zinc	7440-66-6	0.024888	0.12	1200	0.030283	303
Sub-Total			20.74	100	1000000	25.236241	252362
Lead Frame Plating							
Other Nonferrous Metals and Alloys	Tin	7440-31-5	1.6	100	1000000	1.946865	19469
Sub-Total			1.6	100	1000000	1.946865	19469
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	51.537976	89	890000	62.710933	627109
Other Nonferrous Metals and Alloys	Metal Hydroxide	Trade Secret	1.737235	3	30000	2.113852	21139
Thermoplastics	Epoxy	85954-11-6	4.632627	8	80000	5.636938	56369
Sub-Total			57.907838	100	1000000	70.461723	704617
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.554306	100	1000000	1.891265	18913
Sub-Total			1.554306	100	1000000	1.891265	18913
							1
Total			82.183398			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 pom 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 (EMSIs 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

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

Name/Title: Hubie Pavne, Vice President, Worldwide SC Quality For further environmenta Created on: 05/29/2022 ntal statements, please go to www.ti.com/ecoinfo

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