

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: 05/26/2022

Details for "74LVC1G175DBVRG4"

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)*
74LVC1G175DBVRG4	NIPDAU	Level-1-260C-UNLIM	Ext-Mfg	DBV 6	2.9x1.6x1.45	18.9

*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							
Not Categorized	Proprietary Materials		0.000004	0.007946	79	0.000021	0
Precious Metals	Gold	7440-57-5	0.050333	99.992054	999921	0.265798	2658
Sub-Total			0.050337	100	1000000	0.265819	2658
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.039858	73	730000	0.210482	2105
Thermoplastics	Epoxy	85954-11-6	0.014742	27	270000	0.077849	778
Sub-Total			0.0546	100	1000000	0.288331	2883
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	7.02144	97.52	975200	37.078775	370788
Copper and Its Alloys	Iron	7439-89-6	0.1656	2.3	23000	0.874499	8745
Copper and Its Alloys	Phosphorus	7723-14-0	0.00216	0.03	300	0.011407	114
Zinc and Its Alloys	Zinc	7440-66-6	0.0108	0.15	1500	0.057033	570
Sub-Total			7.2	100	1000000	38.021713	380217
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.123656	95.12	951200	0.653002	6530
Precious Metals	Gold	7440-57-5	0.001014	0.78	7800	0.005355	54
Precious Metals	Palladium	7440-05-3	0.00533	4.1	41000	0.028147	281
Sub-Total			0.13	100	1000000	0.686503	6865
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	9.885086	86.994999	869950	52.201098	522011
Other Plastics and Rubber	Carbon Black	1333-86-4	0.056814	0.499999	5000	0.300023	3000
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.000568	0.004999	50	0.002999	30
Thermoplastics	Epoxy	85954-11-6	1.420353	12.500003	125000	7.500591	75006
Sub-Total			11.362821	100	1000000	60.004712	600047
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.13879	100	1000000	0.732921	7329
Sub-Total			0.13879	100	1000000	0.732921	7329
Total			18.936548			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 SC Quality
 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 J57098 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.