

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: 06/06/2022

Details for "SN74LVC157APWRG4"

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)*
SN74LVC157APWRG4	NIPDAU	Level-1-260C-UNLUM	TI MALAYSIA A/T	PW 16	4.4x5x1.15	59.2

***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	0.101135	99.999011	999990	0.170847	1708
Precious Metals	Silver	7440-22-4	0.000001	0.000989	10	0.000002	0
Sub-Total			0.101136	100	1000000	0.170849	1708
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.14795	80.000216	800002	0.249931	2499
Thermoplastics	Epoxy	85954-11-6	0.036987	19.999784	199998	0.062482	625
Sub-Total			0.184937	100	1000000	0.312413	3124
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	20.6635	97.24	972400	34.906778	349068
Copper and Its Alloys	Iron	7439-89-6	0.5525	2.6	26000	0.933336	9333
Copper and Its Alloys	Phosphorus	7723-14-0	0.031875	0.15	1500	0.053846	538
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.002125	0.01	100	0.00359	36
Sub-Total			21.25	100	1000000	35.89755	358976
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.342432	95.12	951200	0.578469	5785
Precious Metals	Gold	7440-57-5	0.002808	0.78	7800	0.004744	47
Precious Metals	Palladium	7440-05-3	0.01476	4.1	41000	0.024934	249
Sub-Total			0.36	100	1000000	0.608147	6081
Mold Compound							
Other Inorganic Materials	Silica	7631-86-9	31.190661	85.000001	850000	52.690274	526903
Other Plastics and Rubber	Carbon Black	1333-86-4	0.183474	0.499999	5000	0.309942	3099
Thermoplastics	Epoxy	85954-11-6	5.32076	14.500001	145000	8.988341	89883
Sub-Total			36.694895	100	1000000	61.988557	619886
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.605272	100	1000000	1.022484	10225
Sub-Total			0.605272	100	1000000	1.022484	10225
Total			59.19624			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: [\(click here for a fuller statement with a signed certificate\)](#)

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/szq088>

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.