

Supplier Name: Texas Instruments Inc. (DUNS# 00-732-1904)  
 Contact Info: [ti.com/support](http://ti.com/support)  
 Form/Declaration Type: Distribute - RoHS and IEC 62474 DB  
 Created on: 05/17/2022

Details for "TPS76150DBVRG4"

**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)*
TPS76150DBVRG4	NIPDAU	Level-1-260C-UNLIM	Ext-Mfg	DBV   5	1.60X2.90X1.45	15.7

\*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
<b>Bond Wire</b>							
Precious Metals	Gold	7440-57-5	0.02598	100	1000000	0.165472	1655
Sub-Total			0.02598	100	1000000	0.165472	1655
<b>Die Attach Adhesive</b>							
Precious Metals	Silver	7440-22-4	0.166021	75.000113	750001	1.057424	10574
Thermoplastics	Epoxy	85954-11-6	0.05534	24.999887	249999	0.352472	3525
Sub-Total			0.221361	100	1000000	1.409896	14099
<b>Lead Frame</b>							
Copper and Its Alloys	Copper	7440-50-8	3.087608	99.28	992800	19.665647	196656
Other Nonferrous Metals and Alloys	Chromium	7440-47-3	0.007775	0.25	2500	0.049521	495
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.007775	0.25	2500	0.049521	495
Zinc and Its Alloys	Zinc	7440-66-6	0.006842	0.22	2200	0.043578	436
Sub-Total			3.11	100	1000000	19.808266	198083
<b>Lead Frame Plating</b>							
Nickel and Its Alloys	Nickel	7440-02-0	0.186435	95.119898	951199	1.187445	11874
Precious Metals	Gold	7440-57-5	0.001529	0.780102	7801	0.009739	97
Precious Metals	Palladium	7440-05-3	0.008036	4.1	41000	0.051183	512
Sub-Total			0.196	100	1000000	1.248367	12484
<b>Mold Compound</b>							
Other inorganic Materials	Fused Silica	60676-86-0	9.657256	85.000005	850000	61.509163	615092
Other Plastics and Rubber	Carbon Black	1333-86-4	0.034084	0.299996	3000	0.217088	2171
Thermoplastics	Epoxy	85954-11-6	1.670137	14.699999	147000	10.637466	106375
Sub-Total			11.361477	100	1000000	72.363717	723637
<b>Semiconductor Device</b>							
Ceramics / Glass	Doped Silicon	7440-21-3	0.785698	100	1000000	5.004281	50043
Sub-Total			0.785698	100	1000000	5.004281	50043
<b>Total</b>			15.700516			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 (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**  
 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](http://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 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.