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:	06/09/2022

Details for "TLV810ZDBZT"

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)*
TLV810ZDBZT	NIPDAUAG	Level-1-260C-UNLIM	Ext-Mfg	DBZ 3	2.9x1.3x0.95	11.2

*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							
Copper and Its Alloys	Copper	7440-50-8	0.009885	97.668215	976682	0.088029	880
Precious Metals	Palladium	7440-05-3	0.000236	2.331785	23318	0.002102	21
Sub-Total			0.010121	100	1000000	0.09013	901
Die Attach Adhesive							
Other Inorganic Materials	Aluminum Oxide	1344-28-1	0.012614	29.999762	299998	0.112331	1123
Other Inorganic Materials	Silica	7631-86-9	0.001892	4.499726	44997	0.016849	168
Thermoplastics	Ероху	85954-11-6	0.027541	65.500511	655005	0.24526	2453
Sub-Total			0.042047	100	1000000	0.37444	3744
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	4.774746	97.443796	974438	42.52036	425204
Copper and Its Alloys	Iron	7439-89-6	0.115119	2.349367	23494	1.025165	10252
Copper and Its Alloys	Phosphorus	7723-14-0	0.004024	0.082122	821	0.035835	358
Zinc and Its Alloys	Zinc	7440-66-6	0.006111	0.124714	1247	0.05442	544
Sub-Total			4.9	100	1000000	43.635779	436358
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.14595	97.3	973000	1.299723	12997
Precious Metals	Gold	7440-57-5	0.00045	0.3	3000	0.004007	40
Precious Metals	Palladium	7440-05-3	0.00315	2.1	21000	0.028052	281
Precious Metals	Silver	7440-22-4	0.00045	0.3	3000	0.004007	40
Sub-Total			0.15	100	1000000	1.335789	13358
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	5.093697	87.00002	870000	45.360702	453607
Other Plastics and Rubber	Carbon Black	1333-86-4	0.005855	0.100003	1000	0.05214	521
Thermoplastics	Ероху	85954-11-6	0.755272	12.899995	129000	6.725894	67259
Sub-Total			5.854824	100	1000000	52.138736	521387
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.272325	100	1000000	2.425125	24251
Sub-Total			0.272325	100	1000000	2.425125	24251
Total			11 229317			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**. <u>See Glossary of Terms for more details</u>.

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)

Name/Title: Hubie Payne, Vice President, Worldwide SC Quality For further environmental statements, please go to www.ti.com/ecoinfo Created on: 06/09/2022

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.