

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: 05/06/2022

Details for "TLE2064IN"

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)*
TLE2064IN	NIPDAU	Level-NC-NC-NC	TI AGUASCALIENTES	N 14	6.35x19.3x4.57	1623.8

*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	0.075626	99.998678	999987	0.004657	47
Precious Metals	Silver	7440-22-4	0.000001	0.001322	13	0	0
Sub-Total			0.075627	100	1000000	0.004657	47
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.884358	78.999965	790000	0.054462	545
Thermoplastics	Epoxy	85954-11-6	0.235083	21.000035	210000	0.014477	145
Sub-Total			1.119441	100	1000000	0.068939	689
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	398.315522	97.05	970500	24.529705	245297
Copper and Its Alloys	Iron	7439-89-6	10.670998	2.6	26000	0.657158	6572
Copper and Its Alloys	Phosphorus	7723-14-0	0.615635	0.15	1500	0.037913	379
Zinc and Its Alloys	Zinc	7440-66-6	0.820846	0.2	2000	0.050551	506
Sub-Total			410.423001	100	1000000	25.275327	252753
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	1.357362	95.119972	951200	0.083591	836
Precious Metals	Gold	7440-57-5	0.011131	0.780028	7800	0.000685	7
Precious Metals	Palladium	7440-05-3	0.058507	4.1	41000	0.003603	36
Sub-Total			1.427	100	1000000	0.08788	879
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	1061.889803	88	880000	65.394999	653950
Other Plastics and Rubber	Carbon Black	1333-86-4	3.620079	0.3	3000	0.222938	2229
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	6.636811	0.55	5500	0.408719	4087
Thermoplastics	Epoxy	85954-11-6	134.546265	11.15	111500	8.285844	82858
Sub-Total			1206.692958	100	1000000	74.312499	743125
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	4.070857	100	1000000	0.250698	2507
Sub-Total			4.070857	100	1000000	0.250698	2507
Total			1623.808884			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: \(click here for a fuller statement with a signed certificate\)](#)

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 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 JS709B 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.