Supplier Name: Contact Info: Form/Declaration Type: Created on:

Texas Instruments Inc. (DUNS# 00-732-1904) ti.com/support Distribute - RoHS and IEC 62474 DB

08/25/2022

Details for "TLC084ID"

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)*
TLC084ID	NIPDAU	Level-1-260C-UNLIM	TI TAIWAN A/T	D 14	3.91X8.65X1.58	149.6

*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	0.086446	99.998843	999988	0.057792	578
Precious Metals	Silver	7440-22-4	0.000001	0.001157	12	0.000001	0
Sub-Total			0.086447	100	1000000	0.057793	578
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.538076	80	800000	0.359721	3597
Thermoplastics	Ероху	85954-11-6	0.134519	20	200000	0.08993	899
Sub-Total			0.672595	100	1000000	0.449651	4497
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	42.645846	97.424999	974250	28.510106	285101
Copper and Its Alloys	Iron	7439-89-6	1.050552	2.4	24000	0.702327	7023
Copper and Its Alloys	Phosphorus	7723-14-0	0.006566	0.015	150	0.00439	44
Copper and Its Alloys	Tin	7440-31-5	0.013132	0.03	300	0.008779	88
Copper and Its Alloys	Zinc	7440-66-6	0.043773	0.1	1000	0.029264	293
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.013132	0.03	300	0.008779	88
Sub-Total			43.773001	100	1000000	29.263645	292636
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.120802	95.119685	951197	0.08076	808
Precious Metals	Gold	7440-57-5	0.000991	0.780315	7803	0.000663	7
Precious Metals	Palladium	7440-05-3	0.005207	4.1	41000	0.003481	35
Sub-Total			0.127	100	1000000	0.084904	849
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	90.396792	88	880000	60.433134	604331
Other Plastics and Rubber	Carbon Black	1333-86-4	0.308171	0.3	3000	0.206022	2060
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.56498	0.55	5500	0.377707	3777
Thermoplastics	Ероху	85954-11-6	11.453684	11.15	111500	7.657152	76572
Sub-Total			102.723627	100	1000000	68.674016	686740
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	2.198836	100	1000000	1.469992	14700
Sub-Total			2.198836	100	1000000	1.469992	14700
Total			149.581506			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 **compo** 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)

Name/Title: Hubie Payne, Vice President, Worldwide SC Quality For further environmental statements, please go to www.ti.com/ecoinfo Created on: 08/25/2022

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 (CI) 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.