Supplier Name: Texas Instruments Inc. (DUNS# 00-732-1904)

Contact Info:

ti.com/support
Distribute - RoHS and IEC 62474 DB Form/Declaration Type:

Created on: 08/26/2022

Details for "TLE2037AMD"

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)*
TLE2037AMD	NIPDAU	Level-1-260C-UNLIM	TI TAIWAN A/T	D 8	3.91X4.9X1.58	82.5

*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							
Precious Metals	Gold	7440-57-5	0.055968	99.998213	999982	0.067846	678
Precious Metals	Silver	7440-22-4	0.000001	0.001787	18	0.000001	0
Sub-Total			0.055969	100	1000000	0.067847	678
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.445064	69.999969	700000	0.539521	5395
Thermoplastics	Epoxy	85954-11-6	0.190742	30.000031	300000	0.231223	2312
Sub-Total			0.635806	100	1000000	0.770744	7707
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	24.25509	97.41	974100	29.402783	294028
Copper and Its Alloys	Iron	7439-89-6	0.5976	2.4	24000	0.72443	7244
Copper and Its Alloys	Phosphorus	7723-14-0	0.00747	0.03	300	0.009055	91
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.00747	0.03	300	0.009055	91
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.00747	0.03	300	0.009055	91
Zinc and Its Alloys	Zinc	7440-66-6	0.0249	0.1	1000	0.030185	302
Sub-Total			24.9	100	1000000	30.184563	301846
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.355273	95.119946	951199	0.430673	4307
Precious Metals	Gold	7440-57-5	0.002913	0.77992	7799	0.003531	35
Precious Metals	Palladium	7440-05-3	0.015314	4.100134	41001	0.018564	186
Sub-Total			0.3735	100	1000000	0.452768	4528
Mold Compound	•	*			•	•	
Other Inorganic Materials	Fused Silica	60676-86-0	40.959727	76.000001	760000	49.65267	496527
Other Organic Materials	Proprietary Non Halide Flame Retardant	Trade Secret	1.886303	3.5	35000	2.286636	22866
Other Plastics and Rubber	Carbon Black	1333-86-4	0.161683	0.3	3000	0.195997	1960
Thermoplastics	Epoxy	85954-11-6	10.886664	20.2	202000	13.197157	131972
Sub-Total			53.894377	100	1000000	65.332459	653325
Semiconductor Device	*	•					
Ceramics / Glass	Doped Silicon	7440-21-3	2.632845	100	1000000	3.191618	31916
Sub-Total			2.632845	100	1000000	3.191618	31916
Total	_		82.492497		·	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

T. here 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

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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: 08/26/2022

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 (5b203) contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.