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 "OPA347UA"

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)*
OPA347UA	NIPDAU	Level-2-260C-1 YEAR	TI MALAYSIA A/T	D 8	3.91x4.9x1.58	101.8

*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

				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	0.030259	100	1000000	0.029731	297
Sub-Total			0.030259	100	1000000	0.029731	297
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.105713	80.000151	800002	0.103868	1039
Thermoplastics	Epoxy	85954-11-6	0.026428	19.999849	199998	0.025967	260
Sub-Total			0.132141	100	1000000	0.129835	1298
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	37.624655	97.701	977010	36.968121	369681
Copper and Its Alloys	Iron	7439-89-6	0.824114	2.14	21400	0.809734	8097
Copper and Its Alloys	Phosphorus	7723-14-0	0.012708	0.032999	330	0.012486	125
Zinc and Its Alloys	Zinc	7440-66-6	0.048523	0.126001	1260	0.047676	477
Sub-Total			38.51	100	1000000	37.838018	378380
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	1.864352	95.12	951200	1.83182	18318
Precious Metals	Gold	7440-57-5	0.015288	0.78	7800	0.015021	150
Precious Metals	Palladium	7440-05-3	0.08036	4.1	41000	0.078958	790
Sub-Total			1.96	100	1000000	1.925799	19258
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	53.425736	87.999999	880000	52.493481	524935
Other Plastics and Rubber	Carbon Black	1333-86-4	0.182133	0.3	3000	0.178955	1790
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.333911	0.55	5500	0.328084	3281
Thermoplastics	Epoxy	85954-11-6	6.769284	11.150001	111500	6.651163	66512
Sub-Total			60.711064	100	1000000	59.651683	596517
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.432481	100	1000000	0.424934	4249
Sub-Total			0.432481	100	1000000	0.424934	4249
Total			101.775945			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

Til 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. Til 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

Thases 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: 05/06/2022

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 J5709B 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.