Supplier Name: Texas Instrume Contact Info: ti.com/support Form/Declaration Type: Distribute - Rob Oreated on: 06/04/2022

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

Distribute - RoHS and IEC 62474 DB

Details for "OPA347SA/3KG4"

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)*
OPA347SA/3KG4	NIPDAU	Level-1-260C-UNLIM	Ext-Mfg	DCK 5	1.25x2x0.9	6.9

*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	0.027077	100	1000000	0.392702	3927
Sub-Total			0.027077	100	1000000	0.392702	3927
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.055866	80.000573	800006	0.810233	8102
Thermoplastics	Epoxy	85954-11-6	0.013966	19.999427	199994	0.202551	2026
Sub-Total			0.069832	100	1000000	1.012784	10128
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	3.215603	97.442486	974425	46.636372	466364
Copper and Its Alloys	Iron	7439-89-6	0.07755	2.349999	23500	1.124719	11247
Copper and Its Alloys	Phosphorus	7723-14-0	0.002723	0.082515	825	0.039492	395
Zinc and Its Alloys	Zinc	7440-66-6	0.004125	0.125	1250	0.059825	598
Sub-Total			3.300001	100	1000000	47.860408	478604
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.057072	95.12	951200	0.827724	8277
Precious Metals	Gold	7440-57-5	0.000468	0.78	7800	0.006787	68
Precious Metals	Palladium	7440-05-3	0.00246	4.1	41000	0.035678	357
Sub-Total			0.06	100	1000000	0.870189	8702
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	3.064765	93.249979	932500	44.448745	444487
Other Plastics and Rubber	Carbon Black	1333-86-4	0.008217	0.250014	2500	0.119172	1192
Thermoplastics	Epoxy	85954-11-6	0.21363	6.500007	65000	3.098308	30983
Sub-Total			3.286612	100	1000000	47.666226	476662
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.151532	100	1000000	2.197691	21977
Sub-Total			0.151532	100	1000000	2.197691	21977
Total			6.895054			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

T 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: 06/04/2022

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 productor or polarity 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.