

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: 05/09/2022

Details for "OPA2347EA/250"

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)*
OPA2347EA/250	NIPDAU	Level-1-260C-UNLIM	Ext-Mfg	DCN 8	2.9x1.7x1	17.3

*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							
Precious Metals	Gold	7440-57-5	0.060302	99.998342	999983	0.34786	3479
Precious Metals	Silver	7440-22-4	0.000001	0.001658	17	0.000006	0
Sub-Total			0.060303	100	1000000	0.347865	3479
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.149181	76.999825	769998	0.860569	8606
Thermoplastics	Epoxy	85954-11-6	0.044561	23.000175	230002	0.257056	2571
Sub-Total			0.193742	100	1000000	1.117625	11176
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	8.490939	97.597	975970	48.981036	489810
Copper and Its Alloys	Iron	7439-89-6	0.19401	2.23	22300	1.119171	11192
Copper and Its Alloys	Phosphorus	7723-14-0	0.003045	0.035	350	0.017565	176
Zinc and Its Alloys	Zinc	7440-66-6	0.012006	0.138	1380	0.069258	693
Sub-Total			8.7	100	1000000	50.18703	501870
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.104632	95.12	951200	0.603583	6036
Precious Metals	Gold	7440-57-5	0.000858	0.78	7800	0.004949	49
Precious Metals	Palladium	7440-05-3	0.00451	4.1	41000	0.026016	260
Sub-Total			0.11	100	1000000	0.634549	6345
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	6.597598	87	870000	38.059063	380591
Other Plastics and Rubber	Carbon Black	1333-86-4	0.007583	0.099994	1000	0.043743	437
Thermoplastics	Epoxy	85954-11-6	0.978265	12.900006	129000	5.643243	56432
Sub-Total			7.583446	100	1000000	43.74605	437460
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.687665	100	1000000	3.966881	39669
Sub-Total			0.687665	100	1000000	3.966881	39669
Total			17.335156			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.