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

Distribute - RoHS and 06/04/2022

Details for "OPA244NA/250G4"

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)*
OPA244NA/250G4	NIPDAU	Level-2-260C-1 YEAR	Ext-Mfg	DBV 5	2.9x1.6x1.45	18.4

*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

				Homoge	neous Material Level	Component Level				
Component	Substance	CAS Number	Amount (mg)	Percentage %	ppm	Percentage %	ppm			
Bond Wire										
Precious Metals	Gold	7440-57-5	0.034546	100	1000000	0.18753	1875			
Sub-Total			0.034546	100	1000000	0.18753	1875			
Die Attach Adhesive										
Precious Metals	Silver	7440-22-4	0.235207	79.999932	799999	1.276803	12768			
Thermoplastics	Epoxy	85954-11-6	0.058802	20.000068	200001	0.319202	3192			
Sub-Total			0.294009	100	1000000	1.596005	15960			
Lead Frame										
Copper and Its Alloys	Copper	7440-50-8	6.290748	97.38	973800	34.148829	341488			
Copper and Its Alloys	Iron	7439-89-6	0.153748	2.38	23800	0.834609	8346			
Copper and Its Alloys	Phosphorus	7723-14-0	0.005426	0.083994	840	0.029455	295			
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.001938	0.03	300	0.01052	105			
Zinc and Its Alloys	Zinc	7440-66-6	0.00814	0.126006	1260	0.044187	442			
Sub-Total			6.46	100	1000000	35.0676	350676			
Lead Frame Plating										
Nickel and Its Alloys	Nickel	7440-02-0	0.110339	95.119828	951198	0.598967	5990			
Precious Metals	Gold	7440-57-5	0.000905	0.780172	7802	0.004913	49			
Precious Metals	Palladium	7440-05-3	0.004756	4.1	41000	0.025818	258			
Sub-Total			0.116	100	1000000	0.629697	6297			
Mold Compound										
Other Inorganic Materials	Fused Silica	60676-86-0	9.355961	86.000003	860000	50.788095	507881			
Other Plastics and Rubber	Carbon Black	1333-86-4	0.054395	0.499999	5000	0.295279	2953			
Thermoplastics	Epoxy	85954-11-6	1.468668	13.499998	135000	7.972548	79725			
Sub-Total			10.879024	100	1000000	59.055923	590559			
Semiconductor Device										
Ceramics / Glass	Doped Silicon	7440-21-3	0.637984	100	1000000	3.463246	34632			
Sub-Total			0.637984	100	1000000	3.463246	34632			
Total			18.421563			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

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: 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 products are also fully compliant with ADSL 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/szq088

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.