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

Contact Info:

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

Created on 06/04/2022

Details for "OPA182IDR"

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)*
OPA182IDR	SN	Level-2-260C-1 YFAR	Fxt-Mfg	D 8	4.9x3.9x1.75	96.5

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							
Not Categorized	Proprietary Materials		0.000004	0.007015	70	0.000004	0
Precious Metals	Gold	7440-57-5	0.057019	99.992985	999930	0.059074	591
Sub-Total			0.057023	100	1000000	0.059079	591
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.291609	81.999938	819999	0.302121	3021
Thermoplastics	Epoxy	85954-11-6	0.064012	18.000062	180001	0.06632	663
Sub-Total			0.355621	100	1000000	0.368441	3684
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	34.999885	97.705	977050	36.261587	362616
Copper and Its Alloys	Iron	7439-89-6	0.752262	2.1	21000	0.77938	7794
Copper and Its Alloys	Phosphorus	7723-14-0	0.005373	0.014999	150	0.005567	56
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.003224	0.009	90	0.00334	33
Precious Metals	Silver	7440-22-4	0.043345	0.121001	1210	0.044908	449
Zinc and Its Alloys	Zinc	7440-66-6	0.017911	0.05	500	0.018557	186
Sub-Total			35.822	100	1000000	37.113339	371133
Lead Frame Plating							
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.896	100	1000000	0.9283	9283
Sub-Total			0.896	100	1000000	0.9283	9283
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	49.288587	84.849999	848500	51.065379	510654
Other Plastics and Rubber	Carbon Black	1333-86-4	0.087134	0.150001	1500	0.090275	903
Thermoplastics	Epoxy	85954-11-6	8.713363	15.000001	150000	9.027469	90275
Sub-Total			58.089084	100	1000000	60.183123	601831
Semiconductor Device	•	•			·	·	
Ceramics / Glass	Doped Silicon	7440-21-3	1.300826	100	1000000	1.347719	13477
Sub-Total			1.300826	100	1000000	1.347719	13477
Total			96.520554			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.

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. Tl and Tl suppliers may consider certain information to be proprietary, and thus certain information may not be available for release by Tl. The material content information is provided by Tl "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 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 15709B 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.