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

Contact Info:

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

06/04/2022

Details for "OPA171AODBVRO1"

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)*
OPA171AQDBVRQ1	NIPDAU	Level-2-260C-1 YEAR	Ext-Mfg	DBV 5	2.9x1.6x1.45	18.2

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		0.000002	0.004348	43	0.000011	0
Precious Metals	Gold	7440-57-5	0.045997	99.995652	999957	0.252664	2527
Sub-Total			0.045999	100	1000000	0.252675	2527
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.065332	72.999911	729999	0.358872	3589
Thermoplastics	Ероху	85954-11-6	0.024164	27.000089	270001	0.132734	1327
Sub-Total			0.089496	100	1000000	0.491606	4916
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	6.305	97	970000	34.633674	346337
Copper and Its Alloys	Iron	7439-89-6	0.156	2.4	24000	0.856916	8569
Copper and Its Alloys	Phosphorus	7723-14-0	0.000975	0.015	150	0.005356	54
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.00065	0.01	100	0.00357	36
Zinc and Its Alloys	Zinc	7440-66-6	0.037375	0.575	5750	0.205303	2053
Sub-Total			6.5	100	1000000	35.704818	357048
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.123656	95.12	951200	0.679248	6792
Precious Metals	Gold	7440-57-5	0.001014	0.78	7800	0.00557	56
Precious Metals	Palladium	7440-05-3	0.00533	4.1	41000	0.029278	293
Sub-Total			0.13	100	1000000	0.714096	7141
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	9.505457	84.999997	850000	52.21394	522139
Other Plastics and Rubber	Carbon Black	1333-86-4	0.033549	0.300003	3000	0.184286	1843
Thermoplastics	Epoxy	85954-11-6	1.643885	14.7	147000	9.029941	90299
Sub-Total			11.182891	100	1000000	61.428167	614282
Semiconductor Device	•	•	·		·	·	
Ceramics / Glass	Doped Silicon	7440-21-3	0.25644	100	1000000	1.408637	14086
Sub-Total			0.25644	100	1000000	1.408637	14086
Total			18.204826			100	1000000

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. 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

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

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 J5709B 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.