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: 06/04/2022

Details for "OPA388IDGKT"

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)*
OPA388IDGKT	NIPDAUAG	Level-2-260C-1 YEAR	Ext-Mfg	DGK 8	3x3x1	29

*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							
Not Categorized	Proprietary Materials		0.000003	0.007729	77	0.00001	0
Precious Metals	Gold	7440-57-5	0.038812	99.992271	999923	0.13372	1337
Sub-Total			0.038815	100	1000000	0.13373	1337
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.257928	82.000089	820001	0.888644	8886
Thermoplastics	Ероху	85954-11-6	0.056618	17.999911	179999	0.195067	1951
Sub-Total			0.314546	100	1000000	1.083711	10837
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	12.844283	96.719006	967190	44.252624	442526
Magnesium and Its Alloys	Magnesium	7439-95-4	0.00664	0.05	500	0.022877	229
Nickel and Its Alloys	Nickel	7440-02-0	0.39508	2.975	29750	1.361176	13612
Other Inorganic Materials	Silicon	7440-21-3	0.032934	0.247997	2480	0.113468	1135
Precious Metals	Silver	7440-22-4	0.001062	0.007997	80	0.003659	37
Sub-Total			13.279999	100	1000000	45.753804	457538
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.183897	97.3	973000	0.633583	6336
Precious Metals	Gold	7440-57-5	0.000567	0.3	3000	0.001953	20
Precious Metals	Palladium	7440-05-3	0.003969	2.1	21000	0.013674	137
Precious Metals	Silver	7440-22-4	0.000567	0.3	3000	0.001953	20
Sub-Total			0.189	100	1000000	0.651165	6512
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	12.565448	87.700005	877000	43.291949	432919
Other Plastics and Rubber	Carbon Black	1333-86-4	0.042983	0.299998	3000	0.14809	1481
Thermoplastics	Ероху	85954-11-6	1.719331	11.999997	120000	5.92364	59236
Sub-Total			14.327762	100	1000000	49.363679	493637
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.874785	100	1000000	3.013911	30139
Sub-Total			0.874785	100	1000000	3.013911	30139
Total			29.024907			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. 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 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/szzo088

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.