Supplier Name: Texa Contact Info: ti.co Form/Declaration Type: Distr Created on: 05/0

Texas Instruments Inc. (DUNS# 00-732-1904) ti.com/support

Distribute - RoHS and IEC 62474 DB 05/06/2022

Details for "OPA2353EA/2K5"

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)*
OPA2353EA/2K5	NIPDAUAG	Level-2-260C-1 YEAR	Ext-Mfg	DGK 8	3x3x1	29.1

*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							
Copper and Its Alloys	Copper	7440-50-8	0.030892	99.987053	999871	0.106065	1061
Not Categorized	Proprietary Materials		0.000004	0.012947	129	0.000014	0
Sub-Total			0.030896	100	1000000	0.106078	1061
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.36154	82.000082	820001	1.241311	12413
Thermoplastics	Epoxy	85954-11-6	0.079362	17.999918	179999	0.272481	2725
Sub-Total			0.440902	100	1000000	1.513792	15138
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	13.036772	99.7	997000	44.760436	447604
Magnesium and Its Alloys	Magnesium	7439-95-4	0.006538	0.05	500	0.022448	224
Other Inorganic Materials	Silicon	7440-21-3	0.03269	0.25	2500	0.112238	1122
Sub-Total			13.076	100	1000000	44.895122	448951
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.3892	97.3	973000	1.336279	13363
Precious Metals	Gold	7440-57-5	0.0012	0.3	3000	0.00412	41
Precious Metals	Palladium	7440-05-3	0.0084	2.1	21000	0.028841	288
Precious Metals	Silver	7440-22-4	0.0012	0.3	3000	0.00412	41
Sub-Total			0.4	100	1000000	1.373359	13734
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	12.905292	92.5	925000	44.309013	443090
Other Plastics and Rubber	Carbon Black	1333-86-4	0.069758	0.499998	5000	0.239507	2395
Thermoplastics	Epoxy	85954-11-6	0.976617	7.000002	70000	3.353116	33531
Sub-Total			13.951667	100	1000000	47.901635	479016
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.226194	100	1000000	4.210013	42100
Sub-Total			1.226194	100	1000000	4.210013	42100
Total			29.125659			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

T 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: 05/06/2022

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 productor products 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 productor products productor products are labeled as "RoHS Compliant" are suitable for use the sold processes. TI may also reference these types of semiconductor products as "Pb-Free."

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/szaq088

Green: Means the content of Chlorine (Cl) 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.