

Supplier Name: Texas Instruments Inc. (DUNS# 00-732-1904)  
 Contact Info: [ti.com/support](http://ti.com/support)  
 Form/Declaration Type: Distribute - RoHS and IEC 62474 DB  
 Created on: 05/09/2022

Details for "OPA544F/500"

**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)*
OPA544F/500	SN	Level-2-260C-1 YEAR	Ext-Mfg	KTT   5	10.2x9x4.5	2263.1

\*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**

Component	Substance	CAS Number	Amount (mg)	Homogeneous Material Level		Component Level	
				Percentage %	ppm	Percentage %	ppm
<b>Bond Wire</b>							
Not Categorized	Proprietary Materials		0.00017	0.007336	73	0.000008	0
Precious Metals	Gold	7440-57-5	2.317316	99.992664	999927	0.102397	1024
Sub-Total			2.317486	100	1000000	0.102405	1024
<b>Die Attach Adhesive</b>							
Precious Metals	Silver	7440-22-4	3.108403	87	870000	0.137354	1374
Thermoplastics	Epoxy	85954-11-6	0.464474	13	130000	0.020524	205
Sub-Total			3.572877	100	1000000	0.157878	1579
<b>Lead Frame</b>							
Copper and Its Alloys	Copper	7440-50-8	1457.1798	99.8	998000	64.389738	643897
Other Nonferrous Metals and Alloys	Tin	7440-31-5	1.4601	0.1	1000	0.064519	645
Precious Metals	Silver	7440-22-4	1.4601	0.1	1000	0.064519	645
Sub-Total			1460.1	100	1000000	64.518775	645188
<b>Lead Frame Plating</b>							
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.0124	100	1000000	0.000548	5
Sub-Total			0.0124	100	1000000	0.000548	5
<b>Mold Compound</b>							
Other Inorganic Materials	Fused Silica	60676-86-0	663.480007	84.81	848100	29.317798	293178
Other Nonferrous Metals and Alloys	Metal Hydroxide	Trade Secret	40.680298	5.2	52000	1.797578	17976
Other Plastics and Rubber	Carbon Black	1333-86-4	1.642858	0.21	2100	0.072594	726
Thermoplastics	Epoxy	85954-11-6	76.510252	9.78	97800	3.380829	33808
Sub-Total			782.313415	100	1000000	34.568799	345688
<b>Semiconductor Device</b>							
Ceramics / Glass	Doped Silicon	7440-21-3	14.745993	100	1000000	0.651595	6516
Sub-Total			14.745993	100	1000000	0.651595	6516
<b>Total</b>			2263.062171			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 (EMSI 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/eoinfo](http://www.ti.com/eoinfo)  
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**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/szq088>

**Green:** Means the content of Chlorine (Cl) and Bromine (Br)-based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold; Antimony trioxide (Sb2O3) contained in halogen based flame retardant materials meets the <=1000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.