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

Contact Info: <u>ti.com/support</u>

Form/Declaration Type: Distribute - RoHS and IEC 62474 DB

Created on: **06/10/2022**

Details for "TPA6045A4CRHBR"

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)*
TPA6045A4CRHBR	NIPDAU	Level-3-260C-168 HR	Ext-Mfg	RHB 32	5.0x5.0x0.9	64.1

*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	0.662612	98.663026	986630	1.034416	10344
Precious Metals	Palladium	7440-05-3	0.008979	1.336974	13370	0.014017	140
Sub-Total			0.671591	100	1000000	1.048433	10484
Die Attach Adhesive	,	,	,				
Precious Metals	Silver	7440-22-4	0.803691	80.499993	805000	1.254657	12547
Thermoplastics	Ероху	85954-11-6	0.194683	19.500007	195000	0.303923	3039
Sub-Total			0.998374	100	1000000	1.55858	15586
Lead Frame	,	,	,				
Copper and Its Alloys	Copper	7440-50-8	25.844475	97.529997	975300	40.346284	403463
Copper and Its Alloys	Iron	7439-89-6	0.614777	2.320001	23200	0.95974	9597
Copper and Its Alloys	Phosphorus	7723-14-0	0.006625	0.025001	250	0.010342	103
Zinc and Its Alloys	Zinc	7440-66-6	0.033124	0.125001	1250	0.05171	517
Sub-Total			26.499001	100	1000000	41.368076	413681
Lead Frame Plating		-					
Nickel and Its Alloys	Nickel	7440-02-0	0.453722	95.119916	951199	0.708314	7083
Precious Metals	Gold	7440-57-5	0.003721	0.780084	7801	0.005809	58
Precious Metals	Palladium	7440-05-3	0.019557	4.1	41000	0.030531	305
Sub-Total			0.477	100	1000000	0.744653	7447
Mold Compound	•	•					
Other Inorganic Materials	Fused Silica	60676-86-0	28.289195	88.000001	880000	44.162781	441628
Other Plastics and Rubber	Carbon Black	1333-86-4	0.09644	0.299999	3000	0.150554	1506
Thermoplastics	Ероху	85954-11-6	3.761177	11.7	117000	5.871642	58716
Sub-Total			32.146812	100	1000000	50.184978	501850
Semiconductor Device	•	•					
Ceramics / Glass	Doped Silicon	7440-21-3	3.263865	100	1000000	5.09528	50953
Sub-Total			3.263865	100	1000000	5.09528	50953
Total			64.056643			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.

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: 06/10/2022

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 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.