

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: 05/06/2022

Details for "THS4042CD"

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)*
THS4042CD	NIPDAU	Level-1-260C-UNLIM	TI TAIWAN A/T	D 8	3.91x4.9x1.58	84.8

*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
Bond Wire							
Other Nonferrous Metals and Alloys	Yttrium	7440-65-5	0.000001	0.00093	9	0.000001	0
Precious Metals	Gold	7440-57-5	0.107509	99.99814	999981	0.126818	1268
Precious Metals	Silver	7440-22-4	0.000001	0.00093	9	0.000001	0
Sub-Total			0.107511	100	1000000	0.126821	1268
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.23457	80.000136	800001	0.2767	2767
Thermoplastics	Epoxy	85954-11-6	0.058642	19.999864	199999	0.069175	692
Sub-Total			0.293212	100	1000000	0.345875	3459
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	24.25509	97.41	974100	28.611471	286115
Copper and Its Alloys	Iron	7439-89-6	0.5976	2.4	24000	0.704933	7049
Copper and Its Alloys	Phosphorus	7723-14-0	0.00747	0.03	300	0.008812	88
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.00747	0.03	300	0.008812	88
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.00747	0.03	300	0.008812	88
Zinc and Its Alloys	Zinc	7440-66-6	0.0249	0.1	1000	0.029372	294
Sub-Total			24.9	100	1000000	29.372211	293722
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.355273	95.119946	951199	0.419082	4191
Precious Metals	Gold	7440-57-5	0.002913	0.77992	7799	0.003436	34
Precious Metals	Palladium	7440-05-3	0.015314	4.100134	41001	0.018064	181
Sub-Total			0.3735	100	1000000	0.440583	4406
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	51.164272	87.999999	880000	60.353727	603537
Other Plastics and Rubber	Carbon Black	1333-86-4	0.174424	0.300001	3000	0.205752	2058
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.319777	0.550001	5500	0.377211	3772
Thermoplastics	Epoxy	85954-11-6	6.482746	11.15	111500	7.647092	76471
Sub-Total			58.141219	100	1000000	68.583781	685838
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.958564	100	1000000	1.130729	11307
Sub-Total			0.958564	100	1000000	1.130729	11307
Total			84.774006			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: \(click here for a fuller statement with a signed certificate\)](#)

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 For further environmental statements, please go to www.ti.com/ecoinfo
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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/szzq088>

Green: Means the content of Chlorine (Cl) and Bromine (Br)-based flame retardants meet JS709B low halogen requirements of <=1 000ppm threshold; Antimony trioxide (Sb2O3) contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.