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

Contact Info:

ti.com/support
Distribute - RoHS and IEC 62474 DB Form/Declaration Type:

Created on: 06/08/2022

Details for "THS4522IPW"

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)*
THS4522IPW	NIPDAU	Level-2-260C-1 YEAR	TI MALAYSIA A/T	PW 16	4.4x5x1.15	57.9

*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	Iron	7439-89-6	0.000001	0.000384	4	0.000002	0
Other Nonferrous Metals and Alloys	Calcium	7440-70-2	0.000001	0.000384	4	0.000002	0
Other Nonferrous Metals and Alloys	Yttrium	7440-65-5	0.000002	0.000769	8	0.000003	0
Precious Metals	Gold	7440-57-5	0.260227	99.99731	999973	0.449187	4492
Precious Metals	Silver	7440-22-4	0.000003	0.001153	12	0.000005	0
Sub-Total			0.260234	100	1000000	0.449199	4492
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.113324	80	800000	0.195612	1956
Thermoplastics	Epoxy	85954-11-6	0.028331	20	200000	0.048903	489
Sub-Total			0.141655	100	1000000	0.244516	2445
Die Attach Adhesive 2							
Precious Metals	Silver	7440-22-4	0.113324	80	800000	0.195612	1956
Thermoplastics	Epoxy	85954-11-6	0.028331	20	200000	0.048903	489
Sub-Total			0.141655	100	1000000	0.244516	2445
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	21.91725	97.41	974100	37.832125	378321
Copper and Its Alloys	Iron	7439-89-6	0.54	2.4	24000	0.932113	9321
Copper and Its Alloys	Phosphorus	7723-14-0	0.00675	0.03	300	0.011651	117
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.00675	0.03	300	0.011651	117
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.00675	0.03	300	0.011651	117
Zinc and Its Alloys	Zinc	7440-66-6	0.0225	0.1	1000	0.038838	388
Sub-Total			22.5	100	1000000	38.83803	388380
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.342432	95.12	951200	0.591084	5911
Precious Metals	Gold	7440-57-5	0.002808	0.78	7800	0.004847	48
Precious Metals	Palladium	7440-05-3	0.01476	4.1	41000	0.025478	255
Sub-Total			0.36	100	1000000	0.621408	6214
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	28.897834	86.000001	860000	49.881553	498816
Other Plastics and Rubber	Carbon Black	1333-86-4	0.100806	0.299999	3000	0.174005	1740
Thermoplastics	Ероху	85954-11-6	4.603492	13.7	137000	7.946247	79462
Sub-Total			33.602132	100	1000000	58.001804	580018
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.463616	100	1000000	0.800264	8003
Sub-Total			0.463616	100	1000000	0.800264	8003
Semiconductor Device 2							
Ceramics / Glass	Doped Silicon	7440-21-3	0.463616	100	1000000	0.800264	8003
Sub-Total			0.463616	100	1000000	0.800264	8003
Total			57.932908			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

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: 06/08/2022

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 s 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 (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.