Supplier Name: Contact Info: Form/Declaration Type: Created on

Texas Instruments Inc. (DUNS# 00-732-1904) ti.com/support Distribute - RoHS and IEC 62474 DB

06/07/2022

Details for "TAS54110PWPR01"

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)*
TAS5411QPWPRQ1	NIPDAU	Level-3-260C-168 HR	TI TAIWAN A/T	PWP 16	5x4.4x1.0	87.4

*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	0.207851	100	1000000	0.237865	2379
Sub-Total			0.207851	100	1000000	0.237865	2379
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	1.282924	85.00002	850000	1.468179	14682
Thermoplastics	Epoxy	85954-11-6	0.226398	14.99998	150000	0.25909	2591
Sub-Total			1.509322	100	1000000	1.72727	17273
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	46.812068	97.049999	970500	53.571776	535718
Copper and Its Alloys	Iron	7439-89-6	1.25411	2.6	26000	1.435205	14352
Copper and Its Alloys	Phosphorus	7723-14-0	0.072353	0.150001	1500	0.082801	828
Zinc and Its Alloys	Zinc	7440-66-6	0.09647	0.2	2000	0.1104	1104
Sub-Total			48.235001	100	1000000	55.200181	552002
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.19024	95.12	951200	0.217711	2177
Precious Metals	Gold	7440-57-5	0.00156	0.78	7800	0.001785	18
Precious Metals	Palladium	7440-05-3	0.0082	4.1	41000	0.009384	94
Sub-Total			0.2	100	1000000	0.22888	2289
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	29.095519	88.000002	880000	33.29694	332969
Other Plastics and Rubber	Carbon Black	1333-86-4	0.132252	0.399999	4000	0.151349	1513
Thermoplastics	Epoxy	85954-11-6	3.835318	11.599999	116000	4.389142	43891
Sub-Total			33.063089	100	1000000	37.837431	378374
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	4.166698	100	1000000	4.768373	47684
Sub-Total			4.166698	100	1000000	4.768373	47684
Total			87.381961			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

Th 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: 06/07/2022

RoHS: Means TI semi onductor 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 (Sb203) contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.