

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: 06/12/2022

Details for "TPS7A7836PWPR"

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)*
TPS7A7836PWPR	NIPDAU	Level-3-260C-168 HR	TI MALAYSIA A/T	PWP 14	5x4.4x1.0	117.6

*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							
Copper and Its Alloys	Copper	7440-50-8	0.119858	99.997497	999975	0.10195	1020
Copper and Its Alloys	Iron	7439-89-6	0.000001	0.000834	8	0.000001	0
Precious Metals	Silver	7440-22-4	0.000002	0.001669	17	0.000002	0
Sub-Total			0.119861	100	1000000	0.101953	1020
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.340234	85.000062	850001	0.2894	2894
Thermoplastics	Epoxy	85954-11-6	0.060041	14.999938	149999	0.05107	511
Sub-Total			0.400275	100	1000000	0.340471	3405
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	77.46592	97.585001	975850	65.891851	658919
Copper and Its Alloys	Iron	7439-89-6	1.825809	2.299999	23000	1.553018	15530
Copper and Its Alloys	Phosphorus	7723-14-0	0.011907	0.014999	150	0.010128	101
Zinc and Its Alloys	Zinc	7440-66-6	0.079383	0.1	1000	0.067523	675
Sub-Total			79.383019	100	1000000	67.522519	675225
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.20641	95.119816	951198	0.175571	1756
Precious Metals	Gold	7440-57-5	0.001693	0.780184	7802	0.00144	14
Precious Metals	Palladium	7440-05-3	0.008897	4.1	41000	0.007568	76
Sub-Total			0.217	100	1000000	0.184578	1846
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	31.562522	88.000001	880000	26.846812	268468
Other Plastics and Rubber	Carbon Black	1333-86-4	0.143466	0.4	4000	0.122031	1220
Thermoplastics	Epoxy	85954-11-6	4.160514	11.599999	116000	3.538898	35389
Sub-Total			35.866502	100	1000000	30.507741	305077
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.578594	100	1000000	1.342739	13427
Sub-Total			1.578594	100	1000000	1.342739	13427
Total			117.565251			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's 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/econfo
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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 J5709B 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.