

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 "TPS76850QPWPRQ1"

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)*
TPS76850QPWPRQ1	NIPDAU	Level-3-260C-168 HR	TI TAIWAN A/T	PWP 20	4.4x6.5x1.15	75.2

*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	0.001014	10	0.000001	0
Precious Metals	Gold	7440-57-5	0.098586	99.997971	999980	0.131029	1310
Precious Metals	Silver	7440-22-4	0.000001	0.001014	10	0.000001	0
Sub-Total			0.098588	100	1000000	0.131032	1310
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.837865	85.000046	850000	1.113596	11136
Thermoplastics	Epoxy	85954-11-6	0.147858	14.999954	150000	0.196516	1965
Sub-Total			0.985723	100	1000000	1.310113	13101
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	27.85926	97.41	974100	37.027411	370274
Copper and Its Alloys	Iron	7439-89-6	0.6864	2.4	24000	0.912286	9123
Copper and Its Alloys	Phosphorus	7723-14-0	0.00858	0.03	300	0.011404	114
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.00858	0.03	300	0.011404	114
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.00858	0.03	300	0.011404	114
Zinc and Its Alloys	Zinc	7440-66-6	0.0286	0.1	1000	0.038012	380
Sub-Total			28.6	100	1000000	38.011919	380119
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.437552	95.12	951200	0.581545	5815
Precious Metals	Gold	7440-57-5	0.003588	0.78	7800	0.004769	48
Precious Metals	Palladium	7440-05-3	0.01886	4.1	41000	0.025067	251
Sub-Total			0.46	100	1000000	0.611381	6114
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	36.017916	85	850000	47.870983	478710
Other Nonferrous Metals and Alloys	Metal Oxide	Trade Secret	0.508488	1.199999	12000	0.675825	6758
Other Plastics and Rubber	Carbon Black	1333-86-4	0.127122	0.3	3000	0.168956	1690
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.127122	0.3	3000	0.168956	1690
Other Plastics and Rubber	Silicone	218163-11-2	1.271221	3.000001	30000	1.689565	16896
Thermoplastics	Epoxy	85954-11-6	4.32215	10.2	102000	5.744518	57445
Sub-Total			42.374019	100	1000000	56.318804	563188
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	2.721228	100	1000000	3.616752	36168
Sub-Total			2.721228	100	1000000	3.616752	36168
Total			75.239558			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: [\(click here for a fuller statement with a signed certificate\)](#)

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 For further environmental statements, please go to www.ti.com/eoinfo
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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.