

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: 06/11/2022

Details for "TPS61390RTET"

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)*
TPS61390RTET	NIPDAU	Level-1-260C-UNLIM	TI Semiconductor	RTE 16	3x3x0.75	26.9

***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

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	0.057217	97.536736	975367	0.212562	2126
Not Categorized	Proprietary Materials		0.000006	0.010228	102	0.000022	0
Precious Metals	Gold	7440-57-5	0.00003	0.05114	511	0.000111	1
Precious Metals	Palladium	7440-05-3	0.001407	2.398486	23985	0.005227	52
Precious Metals	Silver	7440-22-4	0.000002	0.003409	34	0.000007	0
Sub-Total			0.058662	100	1000000	0.21793	2179
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.209828	80	800000	0.779514	7795
Thermoplastics	Epoxy	85954-11-6	0.052457	20	200000	0.194879	1949
Sub-Total			0.262285	100	1000000	0.974393	9744
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	15.89576	97.52	975200	59.053008	590530
Copper and Its Alloys	Iron	7439-89-6	0.3749	2.3	23000	1.39276	13928
Copper and Its Alloys	Phosphorus	7723-14-0	0.00489	0.03	300	0.018166	182
Zinc and Its Alloys	Zinc	7440-66-6	0.02445	0.15	1500	0.090832	908
Sub-Total			16.3	100	1000000	60.554766	605548
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.4756	95.12	951200	1.766862	17669
Precious Metals	Gold	7440-57-5	0.0039	0.78	7800	0.014489	145
Precious Metals	Palladium	7440-05-3	0.0205	4.1	41000	0.076158	762
Sub-Total			0.5	100	1000000	1.857508	18575
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	8.110535	88	880000	30.13077	301308
Other Organic Materials	Chlorine	7782-50-5	0.000092	0.000998	10	0.000342	3
Other Plastics and Rubber	Carbon Black	1333-86-4	0.02765	0.300005	3000	0.10272	1027
Thermoplastics	Epoxy	85954-11-6	1.07824	11.698996	116990	4.005679	40057
Sub-Total			9.216517	100	1000000	34.239511	342395
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.580318	100	1000000	2.155891	21559
Sub-Total			0.580318	100	1000000	2.155891	21559
Total			26.917782			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/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.