Texas Instruments Inc. (DUNS# 00-732-1904)
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Distribute - RoHS and IEC 62474 DB
06/09/2022

Details for "TLV76650QWDRBRQ1"

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)*
TLV76650QWDRBRQ1	NIPDAU	Level-2-260C-1 YEAR	TI Semiconductor	DRB 8	3x3x0.9	23.5

*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

				Homoge	neous Material Level	Component Level	
Component	Substance	CAS Number	Amount (mg)	Percentage %	ppm	Percentage %	ppm
Bond Wire							
Copper and Its Alloys	Copper	7440-50-8	0.03815	96.552946	965529	0.162599	1626
Not Categorized	Proprietary Materials		0.000001	0.002531	25	0.000004	0
Precious Metals	Gold	7440-57-5	0.000232	0.587163	5872	0.000989	10
Precious Metals	Palladium	7440-05-3	0.001128	2.854829	28548	0.004808	48
Precious Metals	Silver	7440-22-4	0.000001	0.002531	25	0.000004	0
Sub-Total			0.039512	100	1000000	0.168404	1684
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.160703	89.999944	899999	0.684932	6849
Thermoplastics	Ероху	85954-11-6	0.017856	10.000056	100001	0.076104	761
Sub-Total			0.178559	100	1000000	0.761036	7610
Lead Frame	•						
Copper and Its Alloys	Copper	7440-50-8	10.14884	97.585	975850	43.255375	432554
Copper and Its Alloys	Iron	7439-89-6	0.2392	2.3	23000	1.019494	10195
Copper and Its Alloys	Phosphorus	7723-14-0	0.00156	0.015	150	0.006649	66
Zinc and Its Alloys	Zinc	7440-66-6	0.0104	0.1	1000	0.044326	443
Sub-Total			10.4	100	1000000	44.325844	443258
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.242556	95.12	951200	1.033798	10338
Precious Metals	Gold	7440-57-5	0.001989	0.78	7800	0.008477	85
Precious Metals	Palladium	7440-05-3	0.010455	4.1	41000	0.04456	446
Sub-Total			0.255	100	1000000	1.086836	10868
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	10.607896	87.999995	880000	45.211918	452119
Other Organic Materials	Chlorine	7782-50-5	0.000121	0.001004	10	0.000516	5
Other Plastics and Rubber	Carbon Black	1333-86-4	0.036163	0.299998	3000	0.15413	1541
Thermoplastics	Ероху	85954-11-6	1.410248	11.699004	116990	6.010619	60106
Sub-Total			12.054428	100	1000000	51.377183	513772
Semiconductor Device	•						
Ceramics / Glass	Doped Silicon	7440-21-3	0.535111	100	1000000	2.280697	22807
Sub-Total			0.535111	100	1000000	2.280697	22807
Total			23.46261			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)

Name/Title: Hubie Payne, Vice President, Worldwide SC Quality For further environmental statements, please go to www.ti.com/ecoinfo Created on: 06/09/2022

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 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.