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:	06/09/2022

Details for "TLV70213QDSERQ1"

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)*
TLV70213QDSERQ1	NIPDAUAG	Level-1-260C-UNLIM	Ext-Mfg	DSE 6	1.5x1.5x0.75	3.4

*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							
Precious Metals	Gold	7440-57-5	0.026372	100	1000000	0.771278	7713
Sub-Total			0.026372	100	1000000	0.771278	7713
Die Attach Adhesive							
Other Inorganic Materials	Aluminum Oxide	1344-28-1	0.011773	29.99949	299995	0.344314	3443
Other Inorganic Materials	Silica	7631-86-9	0.001766	4.500051	45001	0.051649	516
Thermoplastics	Ероху	85954-11-6	0.025705	65.500459	655005	0.751771	7518
Sub-Total			0.039244	100	1000000	1.147734	11477
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	0.876994	97.443778	974438	25.648649	256486
Copper and Its Alloys	Iron	7439-89-6	0.021145	2.349444	23494	0.618409	6184
Copper and Its Alloys	Phosphorus	7723-14-0	0.000739	0.082111	821	0.021613	216
Zinc and Its Alloys	Zinc	7440-66-6	0.001122	0.124667	1247	0.032814	328
Sub-Total			0.9	100	1000000	26.321485	263215
Lead Frame Plating		-					
Nickel and Its Alloys	Nickel	7440-02-0	0.00973	97.3	973000	0.284564	2846
Precious Metals	Gold	7440-57-5	0.00003	0.3	3000	0.000877	9
Precious Metals	Palladium	7440-05-3	0.00021	2.1	21000	0.006142	61
Precious Metals	Silver	7440-22-4	0.00003	0.3	3000	0.000877	9
Sub-Total			0.01	100	1000000	0.292461	2925
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	1.963959	89.700038	897000	57.43813	574381
Other Plastics and Rubber	Carbon Black	1333-86-4	0.006568	0.299981	3000	0.192088	1921
Thermoplastics	Ероху	85954-11-6	0.218947	9.999982	100000	6.403345	64033
Sub-Total			2.189474	100	1000000	64.033563	640336
Semiconductor Device	·						
Ceramics / Glass	Doped Silicon	7440-21-3	0.25417	100	1000000	7.43348	74335
Sub-Total			0.25417	100	1000000	7.43348	74335
Total			3.41926			100	1000000

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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.