Texas Instruments Inc. (DUNS# 00-732-1904) Supplier Name:

Contact Info:

ti.com/support
Distribute - RoHS and IEC 62474 DB Form/Declaration Type:

05/06/2022

Details for "TLC082IDRG4"

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)*
TLC082IDRG4	NIPDAU	Level-1-260C-UNLIM	TI TAIWAN A/T	D 8	3.91x4.9x1.58	84.6

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							
Copper and Its Alloys	Copper	7440-50-8	0.040104	99.990027	999900	0.047388	474
Not Categorized	Proprietary Materials		0.000003	0.00748	75	0.000004	0
Precious Metals	Silver	7440-22-4	0.000001	0.002493	25	0.000001	0
Sub-Total			0.040108	100	1000000	0.047392	474
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.317252	80	800000	0.37487	3749
Thermoplastics	Epoxy	85954-11-6	0.079313	20	200000	0.093718	937
Sub-Total			0.396565	100	1000000	0.468588	4686
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	24.416166	97.425006	974250	28.850559	288506
Copper and Its Alloys	Iron	7439-89-6	0.601476	2.4	24000	0.710714	7107
Copper and Its Alloys	Phosphorus	7723-14-0	0.003759	0.014999	150	0.004442	44
Copper and Its Alloys	Tin	7440-31-5	0.007518	0.029998	300	0.008883	89
Copper and Its Alloys	Zinc	7440-66-6	0.025061	0.099998	1000	0.029613	296
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.007518	0.029998	300	0.008883	89
Sub-Total			25.061498	100	1000000	29.613094	296131
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.036621	95.121951	951220	0.043272	433
Precious Metals	Gold	7440-57-5	0.0003	0.779241	7792	0.000354	4
Precious Metals	Palladium	7440-05-3	0.001578	4.098808	40988	0.001865	19
Sub-Total			0.038499	100	1000000	0.045491	455
Mold Compound	•	•	•		•		
Other Inorganic Materials	Fused Silica	60676-86-0	50.861073	88	880000	60.098312	600983
Other Plastics and Rubber	Carbon Black	1333-86-4	0.17339	0.3	3000	0.204881	2049
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.317882	0.550001	5500	0.375615	3756
Thermoplastics	Ероху	85954-11-6	6.444329	11.15	111500	7.614729	76147
Sub-Total			57.796674	100	1000000	68.293537	682935
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.296442	100	1000000	1.531898	15319
Sub-Total			1.296442	100	1000000	1.531898	15319
Total			84.629786		-	100	1000000

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.

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.

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Tibases 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. Tl and Tl suppliers may consider certain information to be proprietary, and thus certain information may not be available for release by Tl. The material content information is

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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: 05/06/2022

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 (CI) and Bromine (Br)-based flame retardants meet JS709B low halogen requirements of <=1 000ppm threshold; Antimony trioxide (5b203) contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.