Supplier Name: Contact Info: Form/Declaration Type: Created on:

Texas Instruments Inc. (DUNS# 00-732-1904) ti.com/support Distribute - RoHS and IEC 62474 DB

Distribute - RoHS and IEC 05/08/2022

Details for "TLE2022ACDRG4"

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)*
TLE2022ACDRG4	NIPDAU	Level-1-260C-UNLIM	TI AGUASCALIENTES	D 8	3.91x4.9x1.58	109.7

*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							
Copper and Its Alloys	Copper	7440-50-8	0.032066	100	1000000	0.029234	292
Sub-Total			0.032066	100	1000000	0.029234	292
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.599624	78.999971	790000	0.546665	5467
Thermoplastics	Epoxy	85954-11-6	0.159394	21.000029	210000	0.145316	1453
Sub-Total			0.759018	100	1000000	0.691981	6920
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	46.301585	97.049999	970500	42.2122	422122
Copper and Its Alloys	Iron	7439-89-6	1.240434	2.6	26000	1.130878	11309
Copper and Its Alloys	Phosphorus	7723-14-0	0.071564	0.150001	1500	0.065243	652
Zinc and Its Alloys	Zinc	7440-66-6	0.095418	0.2	2000	0.086991	870
Sub-Total			47.709001	100	1000000	43.495313	434953
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.157899	95.11988	951199	0.143953	1440
Precious Metals	Gold	7440-57-5	0.001295	0.78012	7801	0.001181	12
Precious Metals	Palladium	7440-05-3	0.006806	4.1	41000	0.006205	62
Sub-Total			0.166	100	1000000	0.151339	1513
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	51.270053	88	880000	46.74185	467419
Other Plastics and Rubber	Carbon Black	1333-86-4	0.174784	0.3	3000	0.159347	1593
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.320438	0.55	5500	0.292137	2921
Thermoplastics	Epoxy	85954-11-6	6.496149	11.15	111500	5.922405	59224
Sub-Total			58.261424	100	1000000	53.115739	531157
Semiconductor Device						•	
Ceramics / Glass	Doped Silicon	7440-21-3	2.760175	100	1000000	2.516395	25164
Sub-Total			2.760175	100	1000000	2.516395	25164
Total			109.687684			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

Theses 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: 05/08/2022

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 as 1 as folly compliant with GASI 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/szq088

Green: Means the content of Chlorine (CI) 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.