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

08/29/2022

Details for "TLE2022CDR" **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)*
TLE2022CDR	NIPDAU	Level-1-260C-UNLIM	TI AGUASCALIENTES	D 8	3.91x4.9x1.58	108

*Total Device Mass

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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	0.035586	99.99719	999972	0.032945	329
Precious Metals	Silver	7440-22-4	0.000001	0.00281	28	0.000001	(
Sub-Total			0.035587	100	1000000	0.032946	329
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.599624	78.999971	790000	0.555124	5551
Thermoplastics	Epoxy	85954-11-6	0.159394	21.000029	210000	0.147565	1476
Sub-Total			0.759018	100	1000000	0.702689	7027
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	40.49388	96.414	964140	37.488709	374887
Copper and Its Alloys	Iron	7439-89-6	1.092	2.6	26000	1.010959	10110
Copper and Its Alloys	Phosphorus	7723-14-0	0.063	0.15	1500	0.058325	583
Nickel and Its Alloys	Nickel	7440-02-0	0.336	0.8	8000	0.311064	3111
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.0042	0.01	100	0.003888	39
Precious Metals	Gold	7440-57-5	0.0042	0.01	100	0.003888	39
Precious Metals	Palladium	7440-05-3	0.00672	0.016	160	0.006221	62
Sub-Total			42	100	1000000	38.883055	388831
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	3.99504	95.12	951200	3.698556	36986
Precious Metals	Gold	7440-57-5	0.03276	0.78	7800	0.030329	303
Precious Metals	Palladium	7440-05-3	0.1722	4.1	41000	0.159421	1594
Sub-Total			4.2	100	1000000	3.888305	38883
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	51.270053	88	880000	47.46515	474651
Other Plastics and Rubber	Carbon Black	1333-86-4	0.174784	0.3	3000	0.161813	1618
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.320438	0.55	5500	0.296657	2967
Thermoplastics	Epoxy	85954-11-6	6.496149	11.15	111500	6.01405	60141
Sub-Total			58.261424	100	1000000	53.93767	539377
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	2.760175	100	1000000	2.555334	25553
Sub-Total			2.760175	100	1000000	2.555334	25553
							1
Total			108.016204			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.

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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: 08/29/2022

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/szaq088

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.