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 IE 05/06/2022

Details for "TLC2201CDR"

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)*
TLC2201CDR	NIPDAU	Level-1-260C-UNLIM	TI TAIWAN A/T	D 8	3.91x4.9x1.58	85

*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	0.03942	100	1000000	0.046382	464
Sub-Total			0.03942	100	1000000	0.046382	464
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.476985	80.000034	800000	0.561229	5612
Thermoplastics	Epoxy	85954-11-6	0.119246	19.999966	200000	0.140307	1403
Sub-Total			0.596231	100	1000000	0.701536	7015
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	24.25509	97.41	974100	28.538963	285390
Copper and Its Alloys	Iron	7439-89-6	0.5976	2.4	24000	0.703147	7031
Copper and Its Alloys	Phosphorus	7723-14-0	0.00747	0.03	300	0.008789	88
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.00747	0.03	300	0.008789	88
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.00747	0.03	300	0.008789	88
Zinc and Its Alloys	Zinc	7440-66-6	0.0249	0.1	1000	0.029298	293
Sub-Total			24.9	100	1000000	29.297775	292978
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.355273	95.119946	951199	0.41802	4180
Precious Metals	Gold	7440-57-5	0.002913	0.77992	7799	0.003427	34
Precious Metals	Palladium	7440-05-3	0.015314	4.100134	41001	0.018019	180
Sub-Total			0.3735	100	1000000	0.439467	4395
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	50.275324	88	880000	59.154825	591548
Other Plastics and Rubber	Carbon Black	1333-86-4	0.171393	0.3	3000	0.201664	2017
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.314221	0.55	5500	0.369718	3697
Thermoplastics	Ероху	85954-11-6	6.370112	11.15	111500	7.495185	74952
Sub-Total			57.13105	100	1000000	67.221392	672214
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.949187	100	1000000	2.293448	22934
Sub-Total			1.949187	100	1000000	2.293448	22934
Total			84.989388			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/Disclaiment

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: 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 "PoH-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 (Sb203) contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.