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

06/13/2022

# Details for "UCC28221PW"

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)*
UCC28221PW	NIPDAU	Level-1-260C-UNLIM	TI MALAYSIA A/T	PW   20	4.4x6.5x1.15	75

\*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	0.077878	99.998716	999987	0.103795	1038
Precious Metals	Silver	7440-22-4	0.000001	0.001284	13	0.000001	0
Sub-Total			0.077879	100	1000000	0.103796	1038
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.8115	80	800000	1.081555	10816
Thermoplastics	Epoxy	85954-11-6	0.202875	20	200000	0.270389	2704
Sub-Total			1.014375	100	1000000	1.351944	13519
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	27.85926	97.41	974100	37.130406	371304
Copper and Its Alloys	Iron	7439-89-6	0.6864	2.4	24000	0.914824	9148
Copper and Its Alloys	Phosphorus	7723-14-0	0.00858	0.03	300	0.011435	114
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.00858	0.03	300	0.011435	114
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.00858	0.03	300	0.011435	114
Zinc and Its Alloys	Zinc	7440-66-6	0.0286	0.1	1000	0.038118	381
Sub-Total			28.6	100	1000000	38.117653	381177
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.437552	95.12	951200	0.583163	5832
Precious Metals	Gold	7440-57-5	0.003588	0.78	7800	0.004782	48
Precious Metals	Palladium	7440-05-3	0.01886	4.1	41000	0.025136	251
Sub-Total			0.46	100	1000000	0.613081	6131
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	35.743684	86.000001	860000	47.638649	476386
Other Plastics and Rubber	Carbon Black	1333-86-4	0.124687	0.299999	3000	0.166181	1662
Thermoplastics	Epoxy	85954-11-6	5.694052	13.7	137000	7.588948	75889
Sub-Total			41.562423	100	1000000	55.393777	553938
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	3.316175	100	1000000	4.419749	44197
Sub-Total			3.316175	100	1000000	4.419749	44197
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Total			75.030852			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

To 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/Disclaime

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 Pavne, Vice President, Worldwide SC Quality For further environmental statements, please go to www.ti.com/ecoinfo Created on: 06/13/2022

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.