

Supplier Name: Texas Instruments Inc. (DUNS# 00-732-1904)  
 Contact Info: [ti.com/support](http://ti.com/support)  
 Form/Declaration Type: Distribute - RoHS and IEC 62474 DB  
 Created on: 06/13/2022

Details for "UCC284DPTR-5"

**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)*
UCC284DPTR-5	NIPDAU	Level-2-260C-1 YEAR	TI AGUASCALIENTES	D   8	3.91x4.9x1.58	84.9

**\*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**

Component	Substance	CAS Number	Amount (mg)	Homogeneous Material Level		Component Level	
				Percentage %	ppm	Percentage %	ppm
<b>Bond Wire</b>							
Precious Metals	Gold	7440-57-5	0.263282	99.99962	999996	0.310057	3101
Precious Metals	Silver	7440-22-4	0.000001	0.00038	4	0.000001	0
Sub-Total			<b>0.263283</b>	<b>100</b>	<b>1000000</b>	<b>0.310058</b>	<b>3101</b>
<b>Die Attach Adhesive</b>							
Precious Metals	Silver	7440-22-4	0.7076	79.000018	790000	0.833314	8333
Thermoplastics	Epoxy	85954-11-6	0.188096	20.99982	210000	0.221514	2215
Sub-Total			<b>0.895696</b>	<b>100</b>	<b>1000000</b>	<b>1.054827</b>	<b>10548</b>
<b>Lead Frame</b>							
Copper and Its Alloys	Copper	7440-50-8	24.025981	97.425003	974250	28.294488	282945
Copper and Its Alloys	Iron	7439-89-6	0.591864	2.4	24000	0.697016	6970
Copper and Its Alloys	Phosphorus	7723-14-0	0.003699	0.014999	150	0.004356	44
Copper and Its Alloys	Tin	7440-31-5	0.007398	0.029999	300	0.008712	87
Copper and Its Alloys	Zinc	7440-66-6	0.024661	0.1	1000	0.029042	290
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.007398	0.029999	300	0.008712	87
Sub-Total			<b>24.661001</b>	<b>100</b>	<b>1000000</b>	<b>29.042327</b>	<b>290423</b>
<b>Lead Frame Plating</b>							
Nickel and Its Alloys	Nickel	7440-02-0	0.037097	95.120513	951205	0.043688	437
Precious Metals	Gold	7440-57-5	0.000304	0.779487	7795	0.000358	4
Precious Metals	Palladium	7440-05-3	0.001599	4.1	41000	0.001883	19
Sub-Total			<b>0.039</b>	<b>100</b>	<b>1000000</b>	<b>0.045929</b>	<b>459</b>
<b>Mold Compound</b>							
Other Inorganic Materials	Fused Silica	60676-86-0	49.102074	88.000001	880000	57.825654	578257
Other Plastics and Rubber	Carbon Black	1333-86-4	0.167393	0.299999	3000	0.197132	1971
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.306888	0.55	5500	0.36141	3614
Thermoplastics	Epoxy	85954-11-6	6.221456	11.15	111500	7.326773	73268
Sub-Total			<b>55.797811</b>	<b>100</b>	<b>1000000</b>	<b>65.71097</b>	<b>657110</b>
<b>Semiconductor Device</b>							
Ceramics / Glass	Doped Silicon	7440-21-3	3.257206	100	1000000	3.835888	38359
Sub-Total			<b>3.257206</b>	<b>100</b>	<b>1000000</b>	<b>3.835888</b>	<b>38359</b>
<b>Total</b>			<b>84.913997</b>			<b>100</b>	<b>1000000</b>

**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 for 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 (EMSLs 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**

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](http://www.ti.com/ecoinfo)  
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**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 (Sb2O3) contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.