

Supplier Name: Texas Instruments Inc. (DUNS# 00-732-1904)
 Contact Info: ti.com/support
 Form/Declaration Type: Distribute - RoHS and IEC 62474 DB
 Created on: 05/17/2022

Details for "TP576328DBVR"

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)*
TP576328DBVR	NIPDAU	Level-1-260C-UNLIM	Ext-Mfg	DBV 5	2.9x1.6x1.45	18.4

*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
Bond Wire							
Precious Metals	Gold	7440-57-5	0.023298	100	1000000	0.126587	1266
Sub-Total			0.023298	100	1000000	0.126587	1266
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.229795	79.99993	799999	1.248562	12486
Thermoplastics	Epoxy	85954-11-6	0.057449	20.00007	200001	0.312142	3121
Sub-Total			0.287244	100	1000000	1.560704	15607
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	6.290748	97.38	973800	34.179974	341800
Copper and Its Alloys	Iron	7439-89-6	0.153748	2.38	23800	0.83537	8354
Copper and Its Alloys	Phosphorus	7723-14-0	0.005426	0.083994	840	0.029481	295
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.001938	0.03	300	0.01053	105
Zinc and Its Alloys	Zinc	7440-66-6	0.00814	0.126006	1260	0.044228	442
Sub-Total			6.46	100	1000000	35.099583	350996
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.110339	95.119828	951198	0.599513	5995
Precious Metals	Gold	7440-57-5	0.000905	0.780172	7802	0.004917	49
Precious Metals	Palladium	7440-05-3	0.004756	4.1	41000	0.025841	258
Sub-Total			0.116	100	1000000	0.630271	6303
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	9.369642	85.999997	860000	50.90875	509088
Other Plastics and Rubber	Carbon Black	1333-86-4	0.054475	0.500003	5000	0.295983	2960
Thermoplastics	Epoxy	85954-11-6	1.470816	13.5	135000	7.99149	79915
Sub-Total			10.894933	100	1000000	59.196224	591962
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.623302	100	1000000	3.386632	33866
Sub-Total			0.623302	100	1000000	3.386632	33866
Total			18.404777			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 (EMSi 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: \(click here for a fuller statement with a signed certificate\)](#)

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 For further environmental statements, please go to www.ti.com/ecoinfo
 Created on: 05/17/2022

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/szq088>

Green: Means the content of Chlorine (Cl) and Bromine (Br)-based flame retardants meet J5709B low halogen requirements of <=1 000ppm threshold; Antimony trioxide (Sb2O3) contained in halogen based flame retardant materials meets the <=1000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.