Supplier Name: Texas Instruments Inc. (DUNS# 00-732-1904)

Contact Info: ti.com/support

Form/Declaration Type: Distribute - RoHS and IEC 62474 DB

06/10/2022 Created on:

Details for "TPIC6C596PWRG4"

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)*
TPIC6C596PWRG4	NIPDAU	Level-1-260C-UNLIM	TI TAIWAN A/T	PW 16	4.4x5x1.15	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

				Homoge	neous Material Level	Component Level	
Component	Substance	CAS Number	Amount (mg)	Percentage %	ppm	Percentage %	ppm
Bond Wire	·						
Copper and Its Alloys	Copper	7440-50-8	0.099015	97.585374	975854	0.116657	1167
Nickel and Its Alloys	Nickel	7440-02-0	0.000001	0.000986	10	0.000001	0
Not Categorized	Proprietary Materials		0.000011	0.010841	108	0.000013	0
Precious Metals	Palladium	7440-05-3	0.002435	2.399842	23998	0.002869	29
Precious Metals	Silver	7440-22-4	0.000003	0.002957	30	0.000004	0
Sub-Total			0.101465	100	1000000	0.119543	1195
Die Attach Adhesive	•						
Precious Metals	Silver	7440-22-4	0.286838	79.999888	799999	0.337945	3379
Thermoplastics	Ероху	85954-11-6	0.07171	20.000112	200001	0.084487	845
Sub-Total			0.358548	100	1000000	0.422432	4224
Lead Frame	•						
Copper and Its Alloys	Copper	7440-50-8	46.09875	97.05	970500	54.31233	543123
Copper and Its Alloys	Iron	7439-89-6	1.235	2.6	26000	1.455044	14550
Copper and Its Alloys	Phosphorus	7723-14-0	0.07125	0.15	1500	0.083945	839
Zinc and Its Alloys	Zinc	7440-66-6	0.095	0.2	2000	0.111926	1119
Sub-Total			47.5	100	1000000	55.963246	559632
Lead Frame Plating		_					
Nickel and Its Alloys	Nickel	7440-02-0	0.161704	95.12	951200	0.190515	1905
Precious Metals	Gold	7440-57-5	0.001326	0.78	7800	0.001562	16
Precious Metals	Palladium	7440-05-3	0.00697	4.1	41000	0.008212	82
Sub-Total			0.17	100	1000000	0.20029	2003
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	30.59447	86	860000	36.045597	360456
Other Plastics and Rubber	Carbon Black	1333-86-4	0.106725	0.3	3000	0.125741	1257
Thermoplastics	Ероху	85954-11-6	4.87377	13.699999	137000	5.742147	57421
Sub-Total			35.574965	100	1000000	41.913485	419135
Semiconductor Device	•					-	
Ceramics / Glass	Doped Silicon	7440-21-3	1.172157	100	1000000	1.381004	13810
Sub-Total			1.172157	100	1000000	1.381004	13810
Total			84.877135			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/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 Created on: 06/10/2022

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 (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.