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

Contact Info:

ti.com/support
Distribute - RoHS and IEC 62474 DB Form/Declaration Type:

05/06/2022

Details for "TLC084CPWPR"

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)*
TLC084CPWPR	NIPDAU	Level-2-260C-1 YEAR	TI TAIWAN A/T	PWP 20	4.4x6.5x1.15	75.5

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	0.088301	99.989809	999898	0.116988	1170
Not Categorized	Proprietary Materials		0.000007	0.007927	79	0.000009	0
Precious Metals	Silver	7440-22-4	0.000002	0.002265	23	0.000003	0
Sub-Total			0.08831	100	1000000	0.117	1170
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.67702	85.000013	850000	0.896972	8970
Thermoplastics	Epoxy	85954-11-6	0.119474	14.999987	150000	0.158289	1583
Sub-Total			0.796494	100	1000000	1.055261	10553
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	27.85926	97.41	974100	36.910252	369103
Copper and Its Alloys	Iron	7439-89-6	0.6864	2.4	24000	0.909399	9094
Copper and Its Alloys	Phosphorus	7723-14-0	0.00858	0.03	300	0.011367	114
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.00858	0.03	300	0.011367	114
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.00858	0.03	300	0.011367	114
Zinc and Its Alloys	Zinc	7440-66-6	0.0286	0.1	1000	0.037892	379
Sub-Total			28.6	100	1000000	37.891646	378916
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.437552	95.12	951200	0.579705	5797
Precious Metals	Gold	7440-57-5	0.003588	0.78	7800	0.004754	48
Precious Metals	Palladium	7440-05-3	0.01886	4.1	41000	0.024987	250
Sub-Total			0.46	100	1000000	0.609446	6094
Mold Compound	•	•	•		•		
Other Inorganic Materials	Fused Silica	60676-86-0	38.13457	87.999999	880000	50.523833	505238
Other Plastics and Rubber	Carbon Black	1333-86-4	0.173339	0.4	4000	0.229654	2297
Thermoplastics	Epoxy	85954-11-6	5.02683	11.600001	116000	6.65996	66600
Sub-Total			43.334739	100	1000000	57.413447	574134
Semiconductor Device				•	•	•	
Ceramics / Glass	Doped Silicon	7440-21-3	2.198836	100	1000000	2.9132	29132
Sub-Total			2.198836	100	1000000	2.9132	29132
Total			75.478379			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

T. There is a remote possibility the Customer Part Number (CPN) your company uses could reference more than one TI part number. 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: 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 "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.