Supplier Name: Contact Info: ti.com/support Distribute - RoHS and IEC 62474 DB Form/Declaration Type: Created on:

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

05/28/2022

Details for "CD74HC4020M96G4"

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)*
CD74HC4020M96G4	NIPDAU	Level-1-260C-UNLIM	TI AGUASCALIENTES	D 16	3.91x9.9x1.58	238.5

*Total Device Mass

The summary mass is a rounded value and will be within approximately +/- 10% of the detailed mass value.

Environmental Ratings Information

Green	IEC 62474 DB
Yes	Yes
	Green 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	0.094208	99.998939	999989	0.039502	395
Precious Metals	Silver	7440-22-4	0.000001	0.001061	11	0	0
Sub-Total			0.094209	100	1000000	0.039503	395
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.351247	79.000081	790001	0.147282	1473
Thermoplastics	Epoxy	85954-11-6	0.093369	20.999919	209999	0.039151	392
Sub-Total			0.444616	100	1000000	0.186432	1864
Lead Frame	-						
Copper and Its Alloys	Copper	7440-50-8	121.71875	97.375	973750	51.037937	510379
Copper and Its Alloys	Iron	7439-89-6	3.25	2.6	26000	1.362759	13628
Copper and Its Alloys	Phosphorus	7723-14-0	0.01875	0.015	150	0.007862	79
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.0125	0.01	100	0.005241	52
Sub-Total			125	100	1000000	52.413799	524138
Lead Frame Plating	-						
Nickel and Its Alloys	Nickel	7440-02-0	0.76096	95.12	951200	0.319078	3191
Precious Metals	Gold	7440-57-5	0.00624	0.78	7800	0.002616	26
Precious Metals	Palladium	7440-05-3	0.0328	4.1	41000	0.013753	138
Sub-Total			0.8	100	1000000	0.335448	3354
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	97.267402	88.000001	880000	40.785233	407852
Other Plastics and Rubber	Carbon Black	1333-86-4	0.331593	0.3	3000	0.13904	1390
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.607921	0.55	5500	0.254908	2549
Thermoplastics	Epoxy	85954-11-6	12.324222	11.15	111500	5.167674	51677
Sub-Total			110.531138	100	1000000	46.346855	463469
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.616851	100	1000000	0.677962	6780
Sub-Total			1.616851	100	1000000	0.677962	6780
Total			238.486814			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 "RoH5 Exempt" fully meets the latest EU RoH5 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

Il 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 note the valiable 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: 05/28/2022

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/szz088

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.