

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: 08/28/2022

Details for "LM78M05CDT/NOPB"

**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)*
LM78M05CDT/NOPB	SN	Level-2-260C-1 YEAR	Texas Instruments Electronics	NDP   3	7.3 x 6.58 x 2.3	328.3

\*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>							
Copper and Its Alloys	Copper	7440-50-8	0.230203	99.997394	999974	0.070123	701
Copper and Its Alloys	Iron	7439-89-6	0.000001	0.000434	4	0	0
Other Nonferrous Metals and Alloys	Calcium	7440-70-2	0.000001	0.000434	4	0	0
Precious Metals	Silver	7440-22-4	0.000004	0.001738	17	0.000001	0
Sub-Total			0.230209	100	1000000	0.070125	701
<b>Die Attach Adhesive</b>							
Precious Metals	Silver	7440-22-4	0.364705	75.000051	750001	0.111095	1111
Thermoplastics	Epoxy	85954-11-6	0.121568	24.999949	249999	0.037032	370
Sub-Total			0.486273	100	1000000	0.148126	1481
<b>Lead Frame</b>							
Copper and Its Alloys	Copper	7440-50-8	116.30484	96.84	968400	35.428282	354283
Copper and Its Alloys	Iron	7439-89-6	2.87039	2.39	23900	0.874366	8744
Copper and Its Alloys	Phosphorus	7723-14-0	0.03603	0.03	300	0.010975	110
Precious Metals	Silver	7440-22-4	0.74462	0.62	6200	0.226823	2268
Zinc and Its Alloys	Zinc	7440-66-6	0.14412	0.12	1200	0.043901	439
Sub-Total			120.1	100	1000000	36.584347	365843
<b>Lead Frame Plating</b>							
Other Nonferrous Metals and Alloys	Tin	7440-31-5	5.01	100	1000000	1.526125	15261
Sub-Total			5.01	100	1000000	1.526125	15261
<b>Mold Compound</b>							
Other Inorganic Materials	Fused Silica	60676-86-0	178.283971	89	890000	54.308099	543081
Other Nonferrous Metals and Alloys	Metal Hydroxide	Trade Secret	6.009572	3	30000	1.83061	18306
Thermoplastics	Epoxy	85954-11-6	16.025525	8	80000	4.881627	48816
Sub-Total			200.319068	100	1000000	61.020336	610203
<b>Semiconductor Device</b>							
Ceramics / Glass	Doped Silicon	7440-21-3	2.136923	100	1000000	0.65094	6509
Sub-Total			2.136923	100	1000000	0.65094	6509
<b>Total</b>			328.282473			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](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/szqq088>

**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.