#### Supplier Name: Texas Instruments Inc. (DUNS# 00-732-1904) ti.com/support Distribute - RoHS and IEC 62474 DB Contact Info: Form/Declaration Type: 05/30/2022 Created on:

#### Details for "LM1117LD-2.5/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)*
LM1117LD-2.5/NOPB	SN	Level-3-260C-168 HR	Texas Instruments Electronics	NGN   8	4 x 4 x 0.8	36

# \*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

ComposeGASNumeGASNumePrecous<					Homogeneous Material Level		Component Level		
	Component	Substance	CAS Number	Amount (mg)	Percentage %	ppm	Percentage %	ppm	
Copper and its Alloys     Copper     7440-50-8     0.073258     98.7345     987345     9.073258 <td>Bond Wire</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Bond Wire								
Not Casoprized     Proprietary Materials     Ondo     Ontomas     Ontotomas     Ontotomas     O	Copper and Its Alloys	Copper	7440-50-8	0.073258	98.73445	987345	0.203566	2036	
Precious Metals     Gold     7440-57-5     0.000016     0.012164     0.21205     0.0000531     0.025       Precious Metals     Silver     7440-22-4     0.000002     0.002666     0.27     0.000005     740       Sub-Total      0.0027419     0.002666     0.27     0.000005     760       Sub-Total      0.0027419     0.002666     0.27     0.000005     760       Dattatc     0.0027419     0.002666     27     0.000005     760     760       Dattatc     0.0027417     1.000005     76099     1.000355     10410       Thermoplastics     Ego set     589541-6     0.124271     2500005     250000     0.0346968     340402       Sub-Total     Coper     740-52-8     0.4539644     59.86999     950700     0.0402128     40021       Coper and Its Alloys     Inon     740-52-8     0.0337918     2.360030     23600     0.0402128     40021       Coper and Its Alloys     Inon     740-52-8     0.030010     0.03001     0.04042128 <td< td=""><td>Not Categorized</td><td>Proprietary Materials</td><td></td><td>0.000008</td><td>0.010782</td><td>108</td><td>0.000022</td><td>0</td></td<>	Not Categorized	Proprietary Materials		0.000008	0.010782	108	0.000022	0	
Precious Metals     Paladium     7440-02-3     0.000313     1.28008     1.22008     1.2008	Precious Metals	Gold	7440-57-5	0.000016	0.021564	216	0.000044	0	
Precious Metals     Silver     7440-22-4     0.000002     0.002000     0.000000     0.000000     0.000000     0.000000     0.000000     0.0020075     0.0020075     0.0020075     0.0020075     0.0020075     0.0020075     0.0020075     0.0020075     0.0020075     0.0020075     0.002005     0.002	Precious Metals	Palladium	7440-05-3	0.000913	1.230508	12305	0.002537	25	
Sub-Total     (no.)     0.070137     (10.00000)     0.020677     2022       De Attac Adhese     Precious Metals     Silver     74.04-22-4     0.37.4612     74.99995     74.9999     1.040955     54.0140       Thermoglastics     Bopy     Sibs-11.6     0.0124.871     25.0005     0.250001     0.3.46986     34.00       Sub-Total     0     0.499483     0.00     0.000000     0.3.46986     34.00       Sub-Total     0     0.499483     0.00     0.000000     0.3.46986     34.00       Sub-Total     0     0.499483     95.86999     .9.5070     4.04.0124     4.04014       Copper and its Alloys     10.0     740-50-8     0.0.37918     2.3.60003     0.20000     0.0012643     12.6       Copper and its Alloys     10.0     740-22-4     0.0.00455     0.0.0000     0.0.0514     50.6       Sub-Total     10.0     740-62-6     0.0.1516     10.0     0.0.0051     50.6       Sub-Total     10.0     10.0000     10.00000     0.2.40182     24.022  <	Precious Metals	Silver	7440-22-4	0.000002	0.002696	27	0.000006	0	
Die Attack Adhesive     Precious Metals     Silver     7440-22-4     0.374612     74.9995     74999     1.04055     1.04055       Ihermoplastics     Epory     85954-11-6     0.124871     25.00005     250001     0.346986     3470       Sub-Total     I     0.0499483     100     1000000     1.337942     3470       Sub-Total     I     0.0499483     100     1000000     1.337942     33879       Ead Frame     Item     Item     7440-50-8     1.4538644     95.86999     958700     0.40.402128     404021       Copper and Its Alloys     Iron     7439-89-6     0.037918     2.360003     2.360003     0.091571     502       Copper and Its Alloys     Iron     7440-22-4     0.042659     1.61999     1.020     0.068271     582       Store All Stalloys     Silver     7440-22-4     0.042659     1.61999     1.020     0.068271     582       Store All Stalloys     Silver     7440-22-4     0.042659     1.61999     1.020     0.068271     582 <td< td=""><td>Sub-Total</td><td></td><td></td><td>0.074197</td><td>100</td><td>1000000</td><td>0.206175</td><td>2062</td></td<>	Sub-Total			0.074197	100	1000000	0.206175	2062	
Precious Metals     Silver     7440-22-4     0.3746512     74.9995     74.999     1.04035     10410       Themoplastics     Epoxy     85954-11-6     0.124871     25.0005     250001     0.346986     3470       Sub-Total     -     -     0.499483     100     1000000     1.387942     13879       tead Frame     -     -     0.499483     100     1000000     0.436986     3404021       Copper and Its Alloys     Copper 7     740-50-8     14.539644     95.86999     958700     0.40.402128     404021       Copper and Its Alloys     Proshorus     723-14-0     0.003001     0.00000     0.012648     16.8999       Precious Metals     Silver     7440-62-6     0.013199     0.100000     0.42.42619     42.4264       Sub-Total     -     -     15.166     100     1000000     0.42.42619     42.4264       Sub-Total     -     -     0.8677     100     0.00000     2.42.619     2.40922       Sub-Total     -     -     0.8677     <	Die Attach Adhesive							-	
Thermoplastics     Epoxy     85954.1.6     0.024871     25.000     200000     0.0346986     3470       Sub-Total     0.049948     0.00     0.00000     1.38794     31879       Lead Frame     -     -     -     -     -     31879       Copper and its Alloys     Copper     7440-50-8     -     314539644     95.86'99     95.87'00     0.40.40212     404021     Copper and its Alloys     Copper and its Alloys     10.00     0.012643     1262     Copper and its Alloys     723.14.0     0.000455     0.030001     0.0012643     1262     1262     0.0000571     506     50.27 50.01     0.002571     50.25     50.27 50.01     0.002571     50.25     50.27 50.01     0.00000     0.42.126219     42.1262     42.	Precious Metals	Silver	7440-22-4	0.374612	74.99995	749999	1.040955	10410	
Sub-Total     Odd     O	Thermoplastics	Ероху	85954-11-6	0.124871	25.00005	250001	0.346986	3470	
Lead Frame     Copper     7440-50.8     14.539644     95.86999     95.8700     40.02128     40.02128       Copper and Its Alloys     Iron     7439-89-6     0.357918     2.360003     2.36000     0.994567     9946       Copper and Its Alloys     Iron     7439-89-6     0.357918     2.360003     2.3600     0.094567     9946       Copper and Its Alloys     Phosphorus     7723-14-0     0.00455     0.03001     300     0.012643     126       Precious Metals     Silver     7440-66-6     0.018199     0.11999     1200     0.050571     506       Sub-Total      15.166     100     1000000     42.1262     42.1262       Lead Frame Plaing       0.460-315     0.8677     100     1000000     2.409182     24092       Sub-Total     Tin     7440-31-5     0.8677     100     1000000     2.409182     24092       Sub-Total     Eosy     85954-11-6     1.6430002     90.5     905000     45.57946     45.79946     547946	Sub-Total			0.499483	100	1000000	1.387942	13879	
Copper and its Alloys     Copper     7440-50-8     14.53366.4     95.86999     99.8700     04.040212     404021       Copper and its Alloys     Iron     7439.89-6 $0.357918$ 2.36003     2.36003     0.99456     0.99456     126       Copper and its Alloys     Phosphorus     7723.14-0 $0.00455$ 0.03001     300 $0.02643$ 126       Drecious Metals     Silver     7440-22-4 $0.04559$ 16.1999     1200 $0.68271$ 5627       Silu- and its Alloys     Iron     740-66 $0.011999$ 1200 $0.06871$ 5627       Silu- Total     Iron     7440-66 $0.011999$ 1000000     2.409182     24092       Sub-Total     Iron     7440-31-5 $0.867$ 100     1000000     2.409182     24092       Sub-Total     Iron     7440-31-5 $0.867$ 100     1000000     2.409182     24092       Sub-Total     Iron     740-31-5 $0.867$ 100     1000000     2.409182     24092       Sub-Total     <	Lead Frame								
Copper and its Alloys     Iron     7439-89-6     0.357918     2.36000     2.36000     0.994567     946       Copper and its Alloys     Phosphorus     721-40     0.00455     0.030001     300     0.012643     162       Precious Metals     Silver     7440-22-4     0.024568     1.61999     1.6200     0.065271     56827       Zinc and Its Alloys     Zinc     7440-66-6     0.019199     1.0200     0.050571     50827       Sub-Total     -     -     1.5166     100     1000000     0.242619     241625       Lost Trame Plating     -     -     0.867     100     1000000     2.409182     24092       Sub-Total     Inc     740-31-5     0.867     100     1000000     2.409182     24092       Sub-Total     Inc     740-31-5     0.867     100     1000000     2.409182     24092       Sub-Total     Eosy     5950     0.000     4.557946     455799       Thermolignic Materials     Fuesd Silica     60676-86-0     1.1212162     9.5	Copper and Its Alloys	Copper	7440-50-8	14.539644	95.869999	958700	40.402128	404021	
Copper and its Alloys     Phosphorus     722-14-0     0.00455     0.030001     300     0.012643     126       Precious Metals     Silver     7440-22-4     0.245688     1.61999     1.200     0.06271     56827       Sub-Total     a     Comperational     0.01999     1.200     0.005071     508-701       Sub-Total     a     Comperational     0.01999     1.200     0.005071     508-701       Lead FrameWate     -     0.016019     0.10999     1.200     0.005071     508-701       Comperational     1     7440-66-6     0.01199     0.1000000     0.249182     24022       Sub-Total     0     0.867     1.00     1.000000     2.409182     24092       Sub-Total     0     0.867     1.00     1.000000     2.409182     24092       Sub-Total     Eoor     6057-86-0     0.867     100     1.000000     2.409182     24092       Sub-Total     Eoor     85954-11-6     1.72162     9.5     9.5000     4.5579946     455799  <	Copper and Its Alloys	Iron	7439-89-6	0.357918	2.360003	23600	0.994567	9946	
Precious Metals     Silver     7440-22-4     0.0245689     1.61999     1.620     0.68271     5627       Zinc and Its Alloys     Zinc     7440-66-6     0.018199     0.11999     1.200     0.068271     5627       Sub-Total      0.11990     0.11999     1.200     0.050271     541425       teat Frame Hatting     Tim     7440-31-5     0.0867     1.00     1.000000     2.49128     2.4928       Sub-Total     0     0.0867     1.00     0.00000     2.49128     2.4928       Molt Computer     Tim     7440-31-5     0.0867     1.00     0.00000     2.49128     2.4928       Molt Computer     Tim     7440-31-5     0.0867     1.00     0.000000     2.49128     2.4928       Sub-Total     Easy Silica     66676-86-0     1.6140302     9.05     9.05000     4.746435     47646       Sub-Total     Eopy     Silica     66676-86-0     1.212862     9.5     9.5000     4.746435     47646       Sub-Total     Doped Silica     7440-21-3 <td>Copper and Its Alloys</td> <td>Phosphorus</td> <td>7723-14-0</td> <td>0.00455</td> <td>0.030001</td> <td>300</td> <td>0.012643</td> <td>126</td>	Copper and Its Alloys	Phosphorus	7723-14-0	0.00455	0.030001	300	0.012643	126	
Zinc and its Alloys     Zinc     7440-66-6     0.013199     0.11309     0.1200     0.005051     505       Sub-Total     0     0.000     0.000057     0.000     0.0000571     506       Sub-Total     0     0.000     0.000000     4.214261     4.214261       Led Frame/Pating     Tin     7440-31-5     0.06.67     1.00     1.000000     2.409182     2.40922       Sub-Total     0     0.0867     1.00     1.000000     2.409182     2.40922       Sub-Total     0     0.0867     1.00     1.000000     2.409182     2.4092       Mold Compunt      0.0676-86-0     1.6130302     9.05     9.05000     4.557946     5.79946	Precious Metals	Silver	7440-22-4	0.245689	1.619999	16200	0.68271	6827	
Sub-Total     Init	Zinc and Its Alloys	Zinc	7440-66-6	0.018199	0.119999	1200	0.050571	506	
Lead Rame Plating       Under Rame Plating     Note Statistica and Alloys     Note Statistica and Alloys <th colsp<="" td=""><td>Sub-Total</td><td></td><td></td><td>15.166</td><td>100</td><td>1000000</td><td>42.142619</td><td>421426</td></th>	<td>Sub-Total</td> <td></td> <td></td> <td>15.166</td> <td>100</td> <td>1000000</td> <td>42.142619</td> <td>421426</td>	Sub-Total			15.166	100	1000000	42.142619	421426
Other Nonferrous Metals and Alloys     Tin     7440-31-5     0.867     100     1000000     2.40922     24092       Sub-Total     0.867     0.867     0.086     100     0.0000     2.40912     24092       Nole Compund	Lead Frame Plating								
Sub-Total     0.06     0.0867     0.00     0.240922     0.42092       Mold Comput	Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.867	100	1000000	2.409182	24092	
Mole Compound       Other Inorganic Materials     Fuesd Silica     60676-86-0     16.403002     90.5     905000     45.579946     45799       Thermorplastics     Epoxy     85954-11-6     1.721862     9.5     95000     4.784635     478465       Sub-Total     a     a     a     1000000     50.364581     503646       Semiconductor Devic     C     C     C     C     C     348955     348955     Sub-Total     Doped Silicon     7440-21-3     1.255778     100     1000000     3.489501     348955	Sub-Total			0.867	100	1000000	2.409182	24092	
Other longanic Materials     Fused Silica     6067e-86-0     16.403002     90.5     9905000     45.57996     455799       Thermoplastics     Epoxy     85954-11.6     1.721862     9.5     995000     4.78463     478465       Sub-Total     0     18.124864     100     1000000     50.364581     50846581       Sub-Total     0     18.124864     100     1000000     50.364581     5084581       Sub-Total     0     1.255778     100     1000000     3.489501     34895       Sub-Total     0     1.255778     100     1000000     3.489501     34895       Total     0     3.697322     3.697322     100     1000000     3.499501     34895	Mold Compound								
Themoplastics     Epoxy     8595-11-6     1.721862     9.5     95000     4.78463     7846       Sub-Total     0     0     0     0.812484     0.0     0.0000     0.503483     7846       Semiconductor Device	Other Inorganic Materials	Fused Silica	60676-86-0	16.403002	90.5	905000	45.579946	455799	
Sub-Total     Incl     18.124864     100     1000000     50.36468     50.36468       Semiconductor     Ceramics / Glass     Doped Silicon     7440-21-3     1.255778     1.00     1.000000     3.489501     348955       Sub-Total     Ceramics / Glass     Doped Silicon     7440-21-3     1.255778     1.00     1.000000     3.489501     348955       Total     Ceramics / Glass     Sub-Total     Sub	Thermoplastics	Epoxy	85954-11-6	1.721862	9.5	95000	4.784635	47846	
Semiconductor Device       Ceramics / Glass     Doped Silicon     7440-21-3     1.255778     100     1000000     3.489501     34895       Sub-Total     Amount     1.255778     100     1000000     3.489501     34895       Total     Amount     35.987322     100     1000000     3.489501     34895	Sub-Total			18.124864	100	1000000	50.364581	503646	
Ceramics / Glass     Doped Silicon     7440-21-3     1.255778     100     1000000     3.489501     348950       Sub-Total     Image: Ceramics / Glass     Image: Ceramics / Glass <thi< td=""><td>Semiconductor Device</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thi<>	Semiconductor Device								
Sub-Total     100     1000000     3.48950     34895       Total     35.987322     36     36.000000     3.4000000     3.4000000     3.4000000     3.40000000     3.40000000     3.40000000     3.40000000     3.40000000     3.40000000     3.40000000     3.400000000     3.400000000     3.400000000     3.4000000000000000000000000000000000000	Ceramics / Glass	Doped Silicon	7440-21-3	1.255778	100	1000000	3.489501	34895	
Total 35.987322	Sub-Total			1.255778	100	1000000	3.489501	34895	
Total 35.987322 100 100000									
	Total			35.987322			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/Disclaime

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: 05/30/2022

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/szaq088

Green: Means the content of Chlorine (CI) and Bromine (Br)-based flame retardants meet J5709B 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