

Supplier Name: Texas Instruments Inc. (DUNS# 00-732-1904)
 Contact Info: ti.com/support
 Form/Declaration Type: Distribute - RoHS and IEC 62474 DB
 Created on: 06/14/2022

Details for "LM11175X-3.3/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)*
LM11175X-3.3/NOPB	SN	Level-3-245C-168 HR	Texas Instruments Electronics	KTT 3	10.2 x 9 x 4.5	1453.4

*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
Exempt-7(a)	Affected	Yes	Affected

Component Information

Component	Substance	CAS Number	Amount (mg)	Homogeneous Material Level		Component Level	
				Percentage %	ppm	Percentage %	ppm
Bond Wire							
Copper and Its Alloys	Copper	7440-50-8	0.198895	99.992962	999930	0.013685	137
Copper and Its Alloys	Iron	7439-89-6	0.000002	0.001005	10	0	0
Nickel and Its Alloys	Nickel	7440-02-0	0.000003	0.001508	15	0	0
Other Inorganic Materials	Sulfur	7704-34-9	0.000001	0.000503	5	0	0
Other Nonferrous Metals and Alloys	Manganese	7439-96-5	0.000002	0.001005	10	0	0
Precious Metals	Silver	7440-22-4	0.000006	0.003016	30	0	0
Sub-Total			0.198909	100	1000000	0.013686	137
Die Attach Adhesive							
Other Nonferrous Metals and Alloys	Lead	7439-92-1	1.33204	95.500019	955000	0.09165	917
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.027896	1.999991	20000	0.001919	19
Precious Metals	Silver	7440-22-4	0.03487	2.499989	25000	0.002399	24
Sub-Total			1.394806	100	1000000	0.095969	960
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	643.242325	99.55	995500	44.257984	442580
Copper and Its Alloys	Phosphorus	7723-14-0	0.064615	0.01	100	0.004446	44
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.969225	0.15	1500	0.066687	667
Precious Metals	Silver	7440-22-4	1.873835	0.29	2900	0.128928	1289
Sub-Total			646.15	100	1000000	44.458045	444580
Lead Frame Plating							
Other Nonferrous Metals and Alloys	Tin	7440-31-5	12.8	100	1000000	0.880698	8807
Sub-Total			12.8	100	1000000	0.880698	8807
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	703.926288	89	890000	48.433316	484333
Other Nonferrous Metals and Alloys	Metal Hydroxide	Trade Secret	23.727852	3	30000	1.632584	16326
Thermoplastics	Epoxy	85954-11-6	63.274273	8	80000	4.353556	43536
Sub-Total			790.928413	100	1000000	54.419456	544195
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.920601	100	1000000	0.132146	1321
Sub-Total			1.920601	100	1000000	0.132146	1321
Total			1453.392729			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's 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
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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/szzq088>

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.