

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: **05/28/2022**

Details for "AM3505AZER"

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)*
AM3505AZER	SNAGCU	Level-3-260C-168 HR	TI PHILIPPINES A/T	ZER 484	23x23x1.78	1989.6

***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
Bond Wire							
Copper and Its Alloys	Iron	7439-89-6	0.00003	0.000205	2	0.000002	0
Magnesium and Its Alloys	Magnesium	7439-95-4	0.000007	0.000048	0	0	0
Other Nonferrous Metals and Alloys	Beryllium	7440-41-7	0.000014	0.000096	1	0.000001	0
Other Nonferrous Metals and Alloys	Calcium	7440-70-2	0.000038	0.00026	3	0.000002	0
Other Nonferrous Metals and Alloys	Yttrium	7440-65-5	0.000101	0.000691	7	0.000005	0
Precious Metals	Gold	7440-57-5	14.625617	99.997614	999976	0.73512	7351
Precious Metals	Silver	7440-22-4	0.000159	0.001087	11	0.000008	0
Sub-Total			14.625966	100	1000000	0.735137	7351
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	9.392448	81.999999	820000	0.472088	4721
Thermoplastics	Epoxy	85954-11-6	2.061757	18.000001	180000	0.103629	1036
Sub-Total			11.454205	100	1000000	0.575717	5757
Mold Compound							
Other Inorganic Materials	Aluminum Nitride	24304-00-5	10.188152	1	10000	0.512082	5121
Other Inorganic Materials	Fused Silica	60676-86-0	864.260934	84.83	848300	43.439885	434399
Other Nonferrous Metals and Alloys	Metal Oxide	Trade Secret	11.206967	1.1	11000	0.56329	5633
Other Organic Materials	Bromine	7726-95-6	0.203763	0.02	200	0.010242	102
Other Organic Materials	Chlorine	7782-50-5	0.203763	0.02	200	0.010242	102
Other Plastics and Rubber	Carbon Black	1333-86-4	3.056446	0.3	3000	0.153625	1536
Other Plastics and Rubber	Silicone	218163-11-2	8.150522	0.8	8000	0.409665	4097
Thermoplastics	Epoxy	85954-11-6	121.544653	11.93	119300	6.109134	61091
Sub-Total			1018.8152	100	1000000	51.208163	512082
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	35.99767	100	1000000	1.809332	18093
Sub-Total			35.99767	100	1000000	1.809332	18093
Solder Ball							
Aluminum and Its Alloys	Aluminum	7429-90-5	0.004058	0.001	10	0.000204	2
Copper and Its Alloys	Copper	7440-50-8	2.029166	0.5	5000	0.101991	1020
Copper and Its Alloys	Iron	7439-89-6	0.081167	0.02	200	0.00408	41
Other Nonferrous Metals and Alloys	Antimony	7440-36-0	0.202917	0.05	500	0.010199	102
Other Nonferrous Metals and Alloys	Arsenic	7440-38-2	0.12175	0.03	300	0.006119	61
Other Nonferrous Metals and Alloys	Bismuth	7440-69-9	0.12175	0.03	300	0.006119	61
Other Nonferrous Metals and Alloys	Cadmium	7440-43-9	0.008117	0.002	20	0.000408	4
Other Nonferrous Metals and Alloys	Tin	7440-31-5	391.085208	96.366	963660	19.656907	196569
Precious Metals	Silver	7440-22-4	12.174996	3	30000	0.611945	6119
Zinc and Its Alloys	Zinc	7440-66-6	0.004058	0.001	10	0.000204	2
Sub-Total			405.833187	100	1000000	20.398176	203982
Substrate							
Ceramics / Glass	Woven Glass Fiber	65997-17-3	19.044183	3.7874	37874	0.957208	9572
Copper and Its Alloys	Copper	7440-50-8	292.610353	58.1927	581927	14.707318	147073
Nickel and Its Alloys	Nickel	7440-02-0	10.418135	2.0719	20719	0.523641	5236
Other Inorganic Materials	Inorganic Filler	19.044183	3.7874	3.7874	37874	0.957208	9572
Other Plastics and Rubber	Phthalocyanine Blue	147-14-8	0.084475	0.0168	168	0.004246	42
Precious Metals	Gold	7440-57-5	2.257204	0.4489	4489	0.113453	1135
Thermoplastics	Epoxy	85954-11-6	159.371466	31.6949	316949	8.010403	80104
Sub-Total			502.829999	100	1000000	25.273475	252735
Total			1989.556227			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: \(click here for a fuller statement with a signed certificate\)](#)

Name/Title: Hubie Payne, Vice President, Worldwide SC Quality
 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 J5709B 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.