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

Contact Info:

ti.com/support
Distribute - RoHS and IEC 62474 DB Form/Declaration Type:

Created on: 08/28/2022

### Details for "DS90LV027ATM"

#### **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)*
DS90LV027ATM	SNPB	Level-1-235C-UNLIM	Texas Instruments Electronics	D   8	4.9 x 3.9 x 1.75	82

#### \*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
No	Affected	Yes	Affected

#### Component Information

				Homoge	neous Material Level	Component Level	
Component	Substance	CAS Number	Amount (mg)	Percentage %	ppm	Percentage %	ppm
Bond Wire							
Copper and Its Alloys	Copper	7440-50-8	0.059532	99.99832	999983	0.072562	726
Precious Metals	Silver	7440-22-4	0.000001	0.00168	17	0.000001	0
Sub-Total			0.059533	100	1000000	0.072564	726
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.146957	74.999872	749999	0.179123	1791
Thermoplastics	Epoxy	85954-11-6	0.048986	25.000128	250001	0.059708	597
Sub-Total			0.195943	100	1000000	0.238831	2388
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	20.03484	96.6	966000	24.420107	244201
Copper and Its Alloys	Iron	7439-89-6	0.493612	2.38	23800	0.601655	6017
Copper and Its Alloys	Phosphorus	7723-14-0	0.006222	0.03	300	0.007584	76
Precious Metals	Silver	7440-22-4	0.180438	0.87	8700	0.219933	2199
Zinc and Its Alloys	Zinc	7440-66-6	0.024888	0.12	1200	0.030336	303
Sub-Total			20.74	100	1000000	25.279613	252796
Lead Frame Plating							
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.24	15	150000	0.292532	2925
Other Nonferrous Metals and Alloys	Tin	7440-31-5	1.36	85	850000	1.65768	16577
Sub-Total			1.6	100	1000000	1.950211	19502
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	51.964554	89	890000	63.338661	633387
Other Nonferrous Metals and Alloys	Metal Hydroxide	Trade Secret	1.751614	3	30000	2.135011	21350
Thermoplastics	Epoxy	85954-11-6	4.670971	8	80000	5.693363	56934
Sub-Total			58.387139	100	1000000	71.167035	711670
Semiconductor Device		·	•				
Ceramics / Glass	Doped Silicon	7440-21-3	1.059779	100	1000000	1.291746	12917
Sub-Total			1.059779	100	1000000	1.291746	12917
Total			82.042394			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.

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: 08/28/2022

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/szq088

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.