

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: 06/09/2022

Details for "TLV863MDBZT"

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)*
TLV863MDBZT	SN	Level-1-260C-UNLIM	Ext-Mfg	DBZ 3	2.9x1.3x0.95	13.6

*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	Copper	7440-50-8	0.008025	95.150581	951506	0.05885	588
Precious Metals	Gold	7440-57-5	0.000063	0.746977	7470	0.000462	5
Precious Metals	Palladium	7440-05-3	0.000346	4.102442	41024	0.002537	25
Sub-Total			0.008434	100	1000000	0.061849	618
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.030324	80	800000	0.222376	2224
Thermoplastics	Epoxy	85954-11-6	0.007581	20	200000	0.055594	556
Sub-Total			0.037905	100	1000000	0.277969	2780
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	5.886125	94.9375	949375	43.164836	431648
Copper and Its Alloys	Iron	7439-89-6	0.1457	2.35	23500	1.068465	10685
Copper and Its Alloys	Phosphorus	7723-14-0	0.005115	0.0825	825	0.03751	375
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.00031	0.005	50	0.002273	23
Precious Metals	Silver	7440-22-4	0.155	2.5	25000	1.136665	11367
Zinc and Its Alloys	Zinc	7440-66-6	0.00775	0.125	1250	0.056833	568
Sub-Total			6.2	100	1000000	45.466582	454666
Lead Frame Plating							
Other Nonferrous Metals and Alloys	Tin	7440-31-5	1.38	100	1000000	10.119981	101200
Sub-Total			1.38	100	1000000	10.119981	101200
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	5.148293	86.849993	868500	37.754078	377541
Other Organic Materials	Proprietary Non Halide Flame Retardant	Trade Secret	0.029639	0.5	5000	0.217352	2174
Other Plastics and Rubber	Carbon Black	1333-86-4	0.008892	0.150005	1500	0.065208	652
Thermoplastics	Epoxy	85954-11-6	0.740975	12.500002	125000	5.433807	54338
Sub-Total			5.927799	100	1000000	43.470445	434704
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.082251	100	1000000	0.603173	6032
Sub-Total			0.082251	100	1000000	0.603173	6032
Total			13.636389			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
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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.