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 "DS92I X2121SOF/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)*
DS92LX2121SQE/NOPB	SN	Level-3-260C-168 HR	Texas Instruments Electronics	RTA 40	6 x 6 x 0.75	105.5

*Total Device Mass

The summary mass is a rounded value and will be within approximately +/- 10% of the detailed mass value.

Environmental Ratings Information

		120 02474 00
Yes Yes	Yes	Yes

Component Information

	Homogeneous Ma		neous Material Level	Component Level	el		
Component	Substance	CAS Number	Amount (mg)	Percentage %	ppm	Percentage %	ppm
Bond Wire							
Copper and Its Alloys	Copper	7440-50-8	0.362174	97.534794	975348	0.343435	3434
Nickel and Its Alloys	Nickel	7440-02-0	0.000002	0.000539	5	0.000002	. 0
Not Categorized	Proprietary Materials		0.000041	0.011041	110	0.000039	0
Precious Metals	Gold	7440-57-5	0.000191	0.051437	514	0.000181	. 2
Precious Metals	Palladium	7440-05-3	0.008909	2.399227	23992	0.008448	84
Precious Metals	Silver	7440-22-4	0.000011	0.002962	30	0.00001	. 0
Sub-Total			0.371328	100	1000000	0.352116	3521
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.573488	74.999967	750000	0.543816	5438
Thermoplastics	Epoxy	85954-11-6	0.191163	25.000033	250000	0.181272	1813
Sub-Total			0.764651	100	1000000	0.725088	7251
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	61.99578	97.02	970200	58.788157	587882
Copper and Its Alloys	Iron	7439-89-6	1.6614	2.6	26000	1.57544	15754
Copper and Its Alloys	Phosphorus	7723-14-0	0.09585	0.15	1500	0.090891	909
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.01917	0.03	300	0.018178	182
Zinc and Its Alloys	Zinc	7440-66-6	0.1278	0.2	2000	0.121188	1212
Sub-Total			63.9	100	1000000	60.593854	605939
Lead Frame Plating							
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.4	100	1000000	0.379304	3793
Sub-Total			0.4	100	1000000	0.379304	3793
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	34.478518	90.5	905000	32.694621	326946
Thermoplastics	Epoxy	85954-11-6	3.619292	9.5	95000	3.432032	34320
Sub-Total			38.09781	100	1000000	36.126653	361267
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.922451	100	1000000	1.822985	18230
Sub-Total			1.922451	100	1000000	1.822985	18230
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Total			105.45624		1	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 remove 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/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 Created on: 06/14/2022

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 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 J5709B low halogen requirements of <=1 000ppm threshold; Antimony trioxide (5b203) contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.