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: 06/02/2022

Details for "LMR14020SDDAR"

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)*
LMR14020SDDAR	NIPDAUAG	Level-2-260C-1 YEAR	Ext-Mfg	DDA I 8	4.9x3.9x1.75	97.9

*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

				Homogeneous Material Level		Component Level	
Component	Substance	CAS Number	Amount (mg)	Percentage %	ppm	Percentage %	ppm
Bond Wire							
Copper and Its Alloys	Copper	7440-50-8	0.335734	99.984216	999842	0.342865	3429
Not Categorized	Proprietary Materials		0.000053	0.015784	158	0.000054	1
Sub-Total			0.335787	100	1000000	0.342919	3429
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.548372	82.000042	820000	0.560019	5600
Thermoplastics	Epoxy	85954-11-6	0.120374	17.999958	180000	0.122931	1229
Sub-Total			0.668746	100	1000000	0.68295	6829
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	35.907021	97.279998	972800	36.669651	366697
Copper and Its Alloys	Iron	7439-89-6	0.90432	2.450001	24500	0.923527	9235
Copper and Its Alloys	Phosphorus	7723-14-0	0.044293	0.119999	1200	0.045234	452
Zinc and Its Alloys	Zinc	7440-66-6	0.055367	0.150001	1500	0.056543	565
Sub-Total			36.911001	100	1000000	37.694955	376950
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.4865	97.3	973000	0.496833	4968
Precious Metals	Gold	7440-57-5	0.0015	0.3	3000	0.001532	15
Precious Metals	Palladium	7440-05-3	0.0105	2.1	21000	0.010723	107
Precious Metals	Silver	7440-22-4	0.0015	0.3	3000	0.001532	15
Sub-Total			0.5	100	1000000	0.51062	5106
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	47.527948	84.85	848500	48.537396	485374
Other Plastics and Rubber	Carbon Black	1333-86-4	0.084021	0.15	1500	0.085806	858
Thermoplastics	Epoxy	85954-11-6	8.402112	15	150000	8.580565	85806
Sub-Total			56.014081	100	1000000	57.203766	572038
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	3.490653	100	1000000	3.564791	35648
Sub-Total			3.490653	100	1000000	3.564791	35648
Total			97.920268			100	1000000

Important Not

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

Tl certifies that the material content information provided by Tl 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. Tl 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

Thases 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. Timay 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: 06/02/2022

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/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 (Sb203) contained in halogen based flame retardant materials meets the <=1 000ppm threshold requirement; and Beryllium Oxide (BeO) is <=1000ppm.