Supplier Name: Contact Info: Form/Declaration Type: Created on:

Texas Instruments Inc. (DUNS# 00-732-1904) ti.com/support Distribute - RoHS and IEC 62474 DB

05/09/2022

Details for "OP07DDRE4"

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)*
OP07DDRE4	NIPDAU	Level-1-260C-UNLIM	TI AGUASCALIENTES	D 8	3.91x4.9x1.58	108

*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	0.028085	100	1000000	0.026008	260
Sub-Total			0.028085	100	1000000	0.026008	260
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.581756	79	790000	0.538724	5387
Thermoplastics	Epoxy	85954-11-6	0.154644	21	210000	0.143205	1432
Sub-Total			0.7364	100	1000000	0.68193	6819
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	40.49388	96.414	964140	37.498607	374986
Copper and Its Alloys	Iron	7439-89-6	1.092	2.6	26000	1.011226	10112
Copper and Its Alloys	Phosphorus	7723-14-0	0.063	0.15	1500	0.05834	583
Nickel and Its Alloys	Nickel	7440-02-0	0.336	0.8	8000	0.311147	3111
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.0042	0.01	100	0.003889	39
Precious Metals	Gold	7440-57-5	0.0042	0.01	100	0.003889	39
Precious Metals	Palladium	7440-05-3	0.00672	0.016	160	0.006223	62
Sub-Total			42	100	1000000	38.893321	388933
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	3.99504	95.12	951200	3.699533	36995
Precious Metals	Gold	7440-57-5	0.03276	0.78	7800	0.030337	303
Precious Metals	Palladium	7440-05-3	0.1722	4.1	41000	0.159463	1595
Sub-Total			4.2	100	1000000	3.889332	38893
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	51.343846	87.999999	880000	47.546017	475460
Other Plastics and Rubber	Carbon Black	1333-86-4	0.175036	0.3	3000	0.162089	1621
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.320899	0.55	5500	0.297163	2972
Thermoplastics	Ероху	85954-11-6	6.505499	11.15	111500	6.024297	60243
Sub-Total			58.34528	100	1000000	54.029565	540296
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	2.677927	100	1000000	2.479845	24798
Sub-Total			2.677927	100	1000000	2.479845	24798
Total			107.987692			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.

Important Information/Disclaime

Il 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: 05/09/2022

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.