### 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

06/14/2022

# Details for "LM358PWRG4-JF"

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)*
LM358PWRG4-JF	NIPDAU	Level-1-260C-UNLIM	TI MALAYSIA A/T	PW   8	3x4.4x1.0	34.2

\*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**

				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	0.033113	100	1000000	0.096857	969	
Sub-Total			0.033113	100	1000000	0.096857	969	
Die Attach Adhesive								
Precious Metals	Silver	7440-22-4	0.141539	79.999887	799999	0.414007	4140	
Thermoplastics	Epoxy	85954-11-6	0.035385	20.000113	200001	0.103503	1035	
Sub-Total			0.176924	100	1000000	0.51751	5175	
Lead Frame	Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	12.6633	97.41	974100	37.040668	370407	
Copper and Its Alloys	Iron	7439-89-6	0.312	2.4	24000	0.912613	9126	
Copper and Its Alloys	Phosphorus	7723-14-0	0.0039	0.03	300	0.011408	114	
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.0039	0.03	300	0.011408	114	
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.0039	0.03	300	0.011408	114	
Zinc and Its Alloys	Zinc	7440-66-6	0.013	0.1	1000	0.038026	380	
Sub-Total			13	100	1000000	38.02553	380255	
Lead Frame Plating								
Nickel and Its Alloys	Nickel	7440-02-0	0.247312	95.12	951200	0.723398	7234	
Precious Metals	Gold	7440-57-5	0.002028	0.78	7800	0.005932	59	
Precious Metals	Palladium	7440-05-3	0.01066	4.1	41000	0.031181	312	
Sub-Total			0.26	100	1000000	0.760511	7605	
Mold Compound								
Other Inorganic Materials	Fused Silica	60676-86-0	17.31909	86.000003	860000	50.659044	506590	
Other Plastics and Rubber	Carbon Black	1333-86-4	0.060415	0.299998	3000	0.176716	1767	
Thermoplastics	Epoxy	85954-11-6	2.758971	13.699999	137000	8.070103	80701	
Sub-Total			20.138476	100	1000000	58.905863	589059	
Semiconductor Device								
Ceramics / Glass	Doped Silicon	7440-21-3	0.579045	100	1000000	1.69373	16937	
Sub-Total			0.579045	100	1000000	1.69373	16937	
Total			34.187558			100	1000000	

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/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 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.