

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: 05/20/2022

Details for "TP561120RSARG4"

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)*
TP561120RSARG4	NIPDAU	Level-2-260C-1 YEAR	TI MALAYSIA A/T	RSA 16	4.0x4.0x0.90	42.9

*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

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	0.087934	99.998863	999989	0.20508	2051
Precious Metals	Silver	7440-22-4	0.000001	0.001137	11	0.000002	0
Sub-Total			0.087935	100	1000000	0.205082	2051
Die Attach Adhesive							
Other Inorganic Materials	Silica	7631-86-9	0.016596	2.000017	20000	0.038705	387
Precious Metals	Silver	7440-22-4	0.572557	68.99998	690000	1.33532	13353
Thermoplastics	Epoxy	85954-11-6	0.24064	29.000004	290000	0.561222	5612
Sub-Total			0.829793	100	1000000	1.935247	19352
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	18.739393	99.249997	992500	43.704104	437041
Other Nonferrous Metals and Alloys	Chromium	7440-47-3	0.049091	0.260002	2600	0.11449	1145
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.047203	0.250003	2500	0.110087	1101
Zinc and Its Alloys	Zinc	7440-66-6	0.045314	0.239998	2400	0.105682	1057
Sub-Total			18.881001	100	1000000	44.034363	440344
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.323408	95.12	951200	0.754254	7543
Precious Metals	Gold	7440-57-5	0.002652	0.78	7800	0.006185	62
Precious Metals	Palladium	7440-05-3	0.01394	4.1	41000	0.032511	325
Sub-Total			0.34	100	1000000	0.79295	7929
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	18.1239	90.499999	905000	42.268649	422686
Other Plastics and Rubber	Carbon Black	1333-86-4	0.100132	0.5	5000	0.233528	2335
Thermoplastics	Epoxy	85954-11-6	1.802377	9.000001	90000	4.203512	42035
Sub-Total			20.026409	100	1000000	46.705689	467057
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	2.712741	100	1000000	6.326668	63267
Sub-Total			2.712741	100	1000000	6.326668	63267
Total			42.877879			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."
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[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 J57098 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.