Supplier Name:	Texas Instruments Inc. (DUNS# 00-732-1904)
Contact Info:	<u>ti.com/support</u>
Form/Declaration Type:	Distribute - RoHS and IEC 62474 DB
Created on:	06/10/2022

### Details for "TPA2039D1YFFT"

### **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)*
TPA2039D1YFFT	SNAGCU	Level-1-260C-UNLIM	TI PHILIPPINES CLARK A/T	YFF   9	1.254x1.2x.318	1.8

#### \*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
Back Side Coating							
Other Inorganic Materials	Silica	7631-86-9	0.05469	55.06721	550672	3.104085	31041
Other Plastics and Rubber	Carbon Black	1333-86-4	0.00168	1.691587	16916	0.095353	954
Other Plastics and Rubber	Imidazole Derivative	288-32-4	0.000373	0.375573	3756	0.021171	212
Thermoplastics	Ероху	85954-11-6	0.042572	42.86563	428656	2.416294	24163
Sub-Total			0.099315	100	1000000	5.636902	56369
Semiconductor Device		-	-				
Ceramics / Glass	Doped Silicon	7440-21-3	1.114488	100	1000000	63.255901	632559
Sub-Total			1.114488	100	1000000	63.255901	632559
Solder Bump							
Aluminum and Its Alloys	Aluminum	7429-90-5	0.000164	0.029923	299	0.009308	93
Copper and Its Alloys	Copper	7440-50-8	0.003288	0.599924	5999	0.18662	1866
Copper and Its Alloys	Iron	7439-89-6	0.00011	0.02007	201	0.006243	62
Other Nonferrous Metals and Alloys	Antimony	7440-36-0	0.000274	0.049994	500	0.015552	156
Other Nonferrous Metals and Alloys	Arsenic	7440-38-2	0.000164	0.029923	299	0.009308	93
Other Nonferrous Metals and Alloys	Bismuth	7440-69-9	0.000274	0.049994	500	0.015552	156
Other Nonferrous Metals and Alloys	Cadmium	7440-43-9	0.000011	0.002007	20	0.000624	6
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.522404	95.317195	953172	29.650508	296505
Precious Metals	Silver	7440-22-4	0.021375	3.900056	39001	1.213198	12132
Zinc and Its Alloys	Zinc	7440-66-6	0.000005	0.000912	9	0.000284	3
Sub-Total			0.548069	100	1000000	31.107197	311072
Total			1.761872			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**. <u>See Glossary of Terms for more details</u>.

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

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## 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: 06/10/2022

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.