Texas Instruments Inc. (DUNS# 00-732-1904) Supplier Name:

Contact Info:

ti.com/support
Distribute - RoHS and IEC 62474 DB Form/Declaration Type:

Created on: 05/31/2022

## Details for "LM317KTTRG3"

### **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)*
LM317KTTRG3	SN	Level-3-245C-168 HR	Fxt-Mfg	KTT I 3	10.2x9x4.5	1694

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	0.28236	99.992563	999926	0.016668	167
Copper and Its Alloys	Iron	7439-89-6	0.000002	0.000708	7	0	0
Nickel and Its Alloys	Nickel	7440-02-0	0.000004	0.001417	14	0	0
Other Nonferrous Metals and Alloys	Manganese	7439-96-5	0.000003	0.001062	11	0	0
Precious Metals	Silver	7440-22-4	0.000012	0.00425	42	0.000001	0
Sub-Total			0.282381	100	1000000	0.016669	167
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.547695	76.299981	763000	0.032331	323
Thermoplastics	Epoxy	85954-11-6	0.170123	23.700019	237000	0.010043	100
Sub-Total			0.717818	100	1000000	0.042373	424
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	916.525225	99.785	997850	54.103334	541033
Copper and Its Alloys	Iron	7439-89-6	1.37775	0.15	1500	0.08133	813
Copper and Its Alloys	Phosphorus	7723-14-0	0.27555	0.03	300	0.016266	163
Precious Metals	Silver	7440-22-4	0.321475	0.035	350	0.018977	190
Sub-Total			918.5	100	1000000	54.219907	542199
Lead Frame Plating							
Other Nonferrous Metals and Alloys	Tin	7440-31-5	18.33	100	1000000	1.082037	10820
Sub-Total			18.33	100	1000000	1.082037	10820
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	671.432082	89.1	891000	39.635258	396353
Other Plastics and Rubber	Carbon Black	1333-86-4	3.767857	0.5	5000	0.22242	2224
Thermoplastics	Ероху	85954-11-6	78.371421	10.4	104000	4.626338	46263
Sub-Total			753.57136	100	1000000	44.484016	444840
Semiconductor Device	·	·			·	•	
Ceramics / Glass	Doped Silicon	7440-21-3	2.625707	100	1000000	0.154998	1550
Sub-Total			2.625707	100	1000000	0.154998	1550
·							
Total		<u> </u>	1694.027266			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. 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

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 (CI) and Bromine (Br)-based flame retardants meet J5709B 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.