

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: 06/08/2022

Details for "TLV2242IDGK"

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)*
TLV2242IDGK	NIPDAU	Level-1-260C-UNLIM	Ext-Mfg	DGK 8	3x3x1	25.1

*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							
Not Categorized	Proprietary Materials		0.000003	0.00533	53	0.000012	0
Precious Metals	Gold	7440-57-5	0.056285	99.99467	999947	0.22463	2246
Sub-Total			0.056288	100	1000000	0.224642	2246
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.30096	73.000172	730002	1.201114	12011
Thermoplastics	Epoxy	85954-11-6	0.111313	26.999828	269998	0.444244	4442
Sub-Total			0.412273	100	1000000	1.645358	16454
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	9.65634	94.67	946700	38.537891	385379
Copper and Its Alloys	Iron	7439-89-6	0.0204	0.2	2000	0.081415	814
Nickel and Its Alloys	Nickel	7440-02-0	0.3264	3.2	32000	1.302643	13026
Other Inorganic Materials	Silicon	7440-21-3	0.08976	0.88	8800	0.358227	3582
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.0051	0.05	500	0.020354	204
Zinc and Its Alloys	Zinc	7440-66-6	0.102	1	10000	0.407076	4071
Sub-Total			10.2	100	1000000	40.707607	407076
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.194045	95.120098	951201	0.774422	7744
Precious Metals	Gold	7440-57-5	0.001591	0.779902	7799	0.00635	63
Precious Metals	Palladium	7440-05-3	0.008364	4.1	41000	0.03338	334
Sub-Total			0.204	100	1000000	0.814152	8142
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	10.737346	84.999998	850000	42.852123	428521
Other Plastics and Rubber	Carbon Black	1333-86-4	0.037897	0.300004	3000	0.151245	1512
Thermoplastics	Epoxy	85954-11-6	1.856929	14.699998	147000	7.410896	74109
Sub-Total			12.632172	100	1000000	50.414264	504143
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.552009	100	1000000	6.193978	61940
Sub-Total			1.552009	100	1000000	6.193978	61940
Total			25.056742			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/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: [\(click here for a fuller statement with a signed certificate\)](#)

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 For further environmental statements, please go to www.ti.com/eoinfo
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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 JS709B 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.