

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: 06/13/2022

Details for "UA78L05ACLPM"

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)*
UA78L05ACLPM	SN	Level-NC-NC-NC	Ext-Mfg	LP 3	4.3x4.3x3.6	199.5

*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							
Precious Metals	Gold	7440-57-5	0.035065	100	1000000	0.017573	176
Sub-Total			0.035065	100	1000000	0.017573	176
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.182153	70.999867	709999	0.091285	913
Thermoplastics	Epoxy	85954-11-6	0.074401	29.000133	290001	0.037286	373
Sub-Total			0.256554	100	1000000	0.128571	1286
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	80.111661	99.852499	998525	40.147513	401475
Copper and Its Alloys	Iron	7439-89-6	0.08023	0.1	1000	0.040207	402
Copper and Its Alloys	Phosphorus	7723-14-0	0.026075	0.0325	325	0.013067	131
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.012035	0.015001	150	0.006031	60
Sub-Total			80.230001	100	1000000	40.206818	402068
Lead Frame Plating							
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.001	100	1000000	0.000501	5
Sub-Total			0.001	100	1000000	0.000501	5
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	90.767566	76.85	768500	45.48766	454877
Other Plastics and Rubber	Carbon Black	1333-86-4	0.177165	0.15	1500	0.088785	888
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.59055	0.5	5000	0.295951	2960
Thermoplastics	Epoxy	85954-11-6	26.574759	22.5	225000	13.317793	133178
Sub-Total			118.11004	100	1000000	59.190189	591902
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	0.910612	100	1000000	0.456348	4563
Sub-Total			0.910612	100	1000000	0.456348	4563
Total			199.543272			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."

[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/szq088>

Green: Means the content of Chlorine (Cl) and Bromine (Br)-based flame retardants meet J5709B 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.