

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: 05/17/2022

Details for "PCA9535DBQR"

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)*
PCA9535DBQR	NIPDAU	Level-2-260C-1 YEAR	TI MALAYSIA A/T	DBQ 24	3.9x8.65x1.57	179.8

*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

Component	Substance	CAS Number	Amount (mg)	Homogeneous Material Level		Component Level	
				Percentage %	ppm	Percentage %	ppm
Bond Wire							
Copper and Its Alloys	Iron	7439-89-6	0.000001	0.000265	3	0.000001	0
Other Nonferrous Metals and Alloys	Calcium	7440-70-2	0.000001	0.000265	3	0.000001	0
Other Nonferrous Metals and Alloys	Tttrium	7440-65-5	0.000003	0.000796	8	0.000002	0
Precious Metals	Gold	7440-57-5	0.376758	99.997611	999976	0.209532	2095
Precious Metals	Silver	7440-22-4	0.000004	0.001062	11	0.000002	0
Sub-Total			0.376767	100	1000000	0.209537	2095
Die Attach Adhesive							
Precious Metals	Silver	7440-22-4	0.459529	80.000035	800000	0.255564	2556
Thermoplastics	Epoxy	85954-11-6	0.114882	19.999965	200000	0.063891	639
Sub-Total			0.574411	100	1000000	0.319455	3195
Lead Frame							
Copper and Its Alloys	Copper	7440-50-8	88.910055	97.425	974250	49.4468	494468
Copper and Its Alloys	Iron	7439-89-6	2.19024	2.4	24000	1.218089	12181
Copper and Its Alloys	Phosphorus	7723-14-0	0.013689	0.015	150	0.007613	76
Other Nonferrous Metals and Alloys	Lead	7439-92-1	0.027378	0.03	300	0.015226	152
Other Nonferrous Metals and Alloys	Tin	7440-31-5	0.027378	0.03	300	0.015226	152
Zinc and Its Alloys	Zinc	7440-66-6	0.09126	0.1	1000	0.050754	508
Sub-Total			91.26	100	1000000	50.753708	507537
Lead Frame Plating							
Nickel and Its Alloys	Nickel	7440-02-0	0.133168	95.12	951200	0.074061	741
Precious Metals	Gold	7440-57-5	0.001092	0.78	7800	0.000607	6
Precious Metals	Palladium	7440-05-3	0.00574	4.1	41000	0.003192	32
Sub-Total			0.14	100	1000000	0.07786	779
Mold Compound							
Other Inorganic Materials	Fused Silica	60676-86-0	75.30897	88	880000	41.882638	418826
Other Plastics and Rubber	Carbon Black	1333-86-4	0.256735	0.3	3000	0.142782	1428
Other Plastics and Rubber	Organic Phosphorus	1330-78-5	0.470681	0.55	5500	0.261766	2618
Thermoplastics	Epoxy	85954-11-6	9.541989	11.15	111500	5.306721	53067
Sub-Total			85.578375	100	1000000	47.593906	475939
Semiconductor Device							
Ceramics / Glass	Doped Silicon	7440-21-3	1.879968	100	1000000	1.045533	10455
Sub-Total			1.879968	100	1000000	1.045533	10455
Total			179.809521			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/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 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.