Troubleshooting Tips: RoHS and product content

TI Quality

Troubleshooting tips: RoHS and product content

Looking to save time and find the precise reliability related information you need regarding RoHS?

☛*RoHS information and product content can be found at TI.com*

Information on all the products and different package types available at Texas Instruments can be found at ti.com.

TEXAS INSTRUMENTS

Troubleshooting tips: RoHS and product content

Defining RoHS

RoHS(Restriction on Use of Hazardous Substances) in Electrical and Electronic Equipment is defined by European Union, and is set to restrict specific substances at the homogenous level with maximum thresholds.

Specific detail on RoHS, along with the environmental ratings and component Information can be found on TI.com.

TEXAS INSTRUMENTS

Troubleshooting tips: RoHS and product content Access

- Open TI.com
- Click the "Material content search" under the "Quality & reliability" tab

Troubleshooting tips: RoHS and product content Access

- Input the TI part number.
- Use TI product "OPA192IDBVR" as example.

Quality & reliability

Quality policies & procedures

General quality guidelines

Quality system manual

Product life cycle

Product change notification

Anti-counterfeit

Environmental information

Material content search

Packing material information

Lead-free (Pb-free)

Material content search

Quickly locate product RoHS, REACH, and Green status and material content details. Results can be downloaded to an excel file that includes a direct link to TI''s signed EU RoHS Material Declaration Certificate.

Part type   ● TI Part Number   ○ Customer part number

Part number

Search

Part type   ● TI Part Number   ○ Customer part number

Part number

OPA192IDBVR

Search
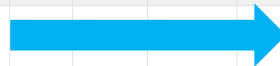
TEXAS INSTRUMENTS

Troubleshooting tips: RoHS and product content Access

A data table will display the RoHS information for this product.

Click the TI part number to see more detailed information.

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Troubleshooting tips: RoHS and product content

Access

Data can be downloaded in the following formats:

- PDF

- XML

- IEC 62474 composition decl.

- IEC 62474 decl. for compliance

- IPC 1752 v1.1 class 4

- IPC 1752 v1.1 class 6

- IPC 1752A class C

- IPC 1752A class D

Material content search

Details for "OPA192IDBVR" ✓ ACTIVE

Choose a download method for component information:

📥 Download spreadsheet   Or   Download specs in XML Format ▾   Go

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) *
OPA192IDBVR	NIPDAU	Level-2-260C-1 YEAR	Ext-Mfg	DBV	5	2.9x1.6x1.45	24.600000

*Total device mass (mg)
The summary mass is a rounded value and will be within approximately +/- 10% of the detailed mass value.

Environmental Ratings Information

RoHS	REACH	Green status	IEC 62474 DB
Yes	Yes	Yes	Yes

Component Information

Component	Substance	CAS Number	Amount (mg)	Homogeneous Material Level Percentage %	ppm	Component Level Percentage %	ppm
Bond Wire							
Not Categorized	Proprietary Materials		0.000001	0.003987	40	0.000004	0
Other Nonferrous Metals and Alloys	Calcium	7440-70-2	0.000001	0.003987	40	0.000004	0
Precious Metals	Gold	7440-57-5	0.025078	99.992026	999920	0.101901	1019
Sub-Total			0.025080	100	1000000	0.101909	1019

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More information on ti.com

Quality & Reliability:

Quality Facts and Questions:
TI.com/support-quality/faq.html

Packaging information:
TI.com/support-packaging/packaging-information.html

Troubleshooting series:
- **Board Level(A-B-A swap), Device level Troubleshooting**
- **General quality guiding**
  TI.com/troubleshooting

Customer returns information:
Ti.com/support-quality/additional-information/customer-returns.html

Application:

E2E support system:
e2e.ti.com/

Simulation tools:

TINA-TI
Free download of Handbook and software:
TI.com/tool/tina-ti

PSPICE-FOR-TI (New Release)
Free download of Handbook and software:
TI.com/tool/PSPICE-FOR-TI

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