



Material Content Data Sheet



Halogen-Free

Sales Product Name	TDA21231	Issued	15. April 2021
MA#	MA005350436		
Package	PG-IQFN-31-2	Weight*	72.92 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip_1	inorganic material	silicon	7440-21-3	0.569	0.78	0.78	7806	7806
chip_2	inorganic material	silicon	7440-21-3	0.226	0.31	0.31	3096	3096
chip_3	inorganic material	silicon	7440-21-3	0.745	1.02	1.02	10215	10215
leadframe	inorganic material	phosphorus	7723-14-0	0.003			48	
	non noble metal	zinc	7440-66-6	0.014	0.02		191	
	non noble metal	iron	7439-89-6	0.279	0.38		3822	
	non noble metal	copper	7440-50-8	11.316	15.52	15.92	155181	159242
wire	non noble metal	copper	7440-50-8	0.101	0.14	0.14	1385	1385
encapsulation	organic material	carbon black	1333-86-4	0.059	0.08		813	
	plastics	epoxy resin	-	3.055	4.19		41894	
	inorganic material	silicondioxide	60676-86-0	26.545	36.43	40.70	364030	406737
leadfinish	non noble metal	tin	7440-31-5	0.986	1.35	1.35	13528	13528
plating	noble metal	silver	7440-22-4	0.054	0.07	0.07	737	737
solder	noble metal	silver	7440-22-4	0.037	0.05		505	
	non noble metal	tin	7440-31-5	0.062	0.08		850	
	non noble metal	lead	7439-92-1	1.373	1.88	2.01	18832	20187
glue	plastics	epoxy resin	-	0.088	0.12		1212	
	noble metal	silver	7440-22-4	0.265	0.36	0.48	3636	4848
heat sink clip	inorganic material	phosphorus	7723-14-0	0.003			39	
	non noble metal	zinc	7440-66-6	0.011	0.02		156	
	non noble metal	iron	7439-89-6	0.227	0.31		3117	
	non noble metal	copper	7440-50-8	9.230	12.66	12.99	126582	129894
heatspreader	inorganic material	phosphorus	7723-14-0	0.005	0.01		73	
	non noble metal	zinc	7440-66-6	0.021	0.03		291	
	non noble metal	iron	7439-89-6	0.424	0.58		5816	
	non noble metal	copper	7440-50-8	17.220	23.61	24.23	236145	242325
*deviation	< 10%	Sum in total:				100.00		1000000

Important Remarks:

- Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
- Infineon Technologies AG and Infineon Technologies AG suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and contains Pb according RoHS exemption 7a, Lead in high melting temperature type solders.

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