



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	TDA38820	<b>Issued</b>	08. April 2022
<b>MA#</b>	MA005584053		
<b>Package</b>	PG-IQFN-29-2	<b>Weight*</b>	68.44 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	0.200	0.29	0.29	2915	2915
chip_2	inorganic material	silicon	7440-21-3	0.352	0.51	0.51	5148	5148
chip_3	inorganic material	silicon	7440-21-3	1.552	2.27	2.27	22674	22674
leadframe	inorganic material	phosphorus	7723-14-0	0.007	0.01		100	
	non noble metal	zinc	7440-66-6	0.027	0.04		401	
	non noble metal	iron	7439-89-6	0.549	0.80		8025	
	non noble metal	copper	7440-50-8	22.301	32.62	33.47	325848	334374
wire	noble metal	gold	7440-57-5	0.236	0.34	0.34	3449	3449
encapsulation	organic material	carbon black	1333-86-4	0.244	0.36		3559	
	non noble metal	metal hydroxide	-	0.487	0.71		7119	
	inorganic material	amorphous silica	7631-86-9	1.705	2.49		24915	
	plastics	epoxy resin	-	2.436	3.56		35593	
	inorganic material	silicon dioxide	60676-86-0	19.488	28.47	35.59	284747	355933
leadfinish	noble metal	palladium	7440-05-3	0.002			27	
	noble metal	gold	7440-57-5	0.003			44	
	non noble metal	nickel	7440-02-0	0.055	0.08	0.08	799	870
plating	noble metal	palladium	7440-05-3	0.001			18	
	noble metal	gold	7440-57-5	0.002			29	
	non noble metal	nickel	7440-02-0	0.037	0.05	0.05	538	585
solder	noble metal	silver	7440-22-4	0.076	0.11		1114	
	non noble metal	tin	7440-31-5	0.153	0.22		2228	
	non noble metal	lead	7439-92-1	2.821	4.12	4.45	41225	44567
heat sink clip	inorganic material	phosphorus	7723-14-0	0.005	0.01		69	
	non noble metal	zinc	7440-66-6	0.019	0.03		275	
	non noble metal	iron	7439-89-6	0.377	0.55		5508	
	non noble metal	copper	7440-50-8	15.305	22.36	22.95	223633	229485
*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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