



Material Content Data Sheet



Halogen-Free

Sales Product Name	TDA21520	Issued	08. April 2022
MA#	MA005583800		
Package	PG-IQFN-25-1	Weight*	67.87 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	0.224	0.33	0.33	3297	3297
chip_2	inorganic material	silicon	7440-21-3	0.430	0.63	0.63	6329	6329
chip_3	inorganic material	silicon	7440-21-3	1.159	1.71	1.71	17080	17080
leadframe	inorganic material	phosphorus	7723-14-0	0.006	0.01		95	
	non noble metal	zinc	7440-66-6	0.026	0.04		381	
	non noble metal	iron	7439-89-6	0.517	0.76		7613	
	non noble metal	copper	7440-50-8	20.980	30.91	31.72	309132	317221
wire	noble metal	gold	7440-57-5	0.290	0.43	0.43	4274	4274
encapsulation	organic material	carbon black	1333-86-4	0.247	0.36		3638	
	non noble metal	metal hydroxide	-	0.494	0.73		7277	
	inorganic material	amorphous silica	7631-86-9	1.729	2.55		25469	
	plastics	epoxy resin	-	2.469	3.64		36384	
	inorganic material	silicon dioxide	60676-86-0	19.755	29.11	36.39	291072	363840
leadfinish	noble metal	palladium	7440-05-3	0.002			24	
	noble metal	gold	7440-57-5	0.003			39	
	non noble metal	nickel	7440-02-0	0.048	0.07	0.07	712	775
plating	noble metal	silver	7440-22-4	0.472	0.70	0.70	6960	6960
solder	noble metal	silver	7440-22-4	0.064	0.09		945	
	non noble metal	tin	7440-31-5	0.128	0.19		1891	
	non noble metal	lead	7439-92-1	2.374	3.50	3.78	34976	37812
heat sink clip	inorganic material	phosphorus	7723-14-0	0.005	0.01		73	
	non noble metal	zinc	7440-66-6	0.020	0.03		291	
	non noble metal	iron	7439-89-6	0.395	0.58		5818	
	non noble metal	copper	7440-50-8	16.033	23.62	24.24	236230	242412
*deviation	< 10%				Sum in total:	100.00		1000000

Important Remarks:

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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.

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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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