



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	TDA21242	<b>Issued</b>	10. May 2021
<b>MA#</b>	MA001585404		
<b>Package</b>	PG-IQFN-30-2	<b>Weight*</b>	56.07 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip	inorganic material	silicon	7440-21-3	1.304	2.33	2.33	23265	23265
leadframe	inorganic material	phosphorus	7723-14-0	0.005	0.01		82	
	non noble metal	zinc	7440-66-6	0.018	0.03		328	
	non noble metal	iron	7439-89-6	0.368	0.66		6569	
	non noble metal	copper	7440-50-8	14.956	26.67	27.37	266746	273725
wire	non noble metal	copper	7440-50-8	0.085	0.15	0.15	1509	1509
encapsulation	organic material	carbon black	1333-86-4	0.047	0.08		829	
	plastics	epoxy resin	-	2.395	4.27		42710	
	inorganic material	silicondioxide	60676-86-0	20.809	37.12	41.47	371125	414664
leadfinish	non noble metal	tin	7440-31-5	0.593	1.06	1.06	10572	10572
plating	noble metal	silver	7440-22-4	0.040	0.07	0.07	716	716
glue	plastics	epoxy resin	-	0.088	0.16		1576	
	noble metal	silver	7440-22-4	0.265	0.47	0.63	4729	6305
solder	noble metal	silver	7440-22-4	0.029	0.05		522	
	non noble metal	tin	7440-31-5	0.023	0.04		418	
	non noble metal	lead	7439-92-1	1.118	1.99	2.08	19938	20878
heatspreader	inorganic material	phosphorus	7723-14-0	0.001			14	
	non noble metal	zinc	7440-66-6	0.003	0.01		55	
	non noble metal	iron	7439-89-6	0.062	0.11		1099	
	non noble metal	copper	7440-50-8	2.502	4.46	4.58	44622	45790
heat sink CLIP	inorganic material	phosphorus	7723-14-0	0.003	0.01		61	
	non noble metal	zinc	7440-66-6	0.014	0.02		243	
	non noble metal	iron	7439-89-6	0.273	0.49		4862	
	non noble metal	copper	7440-50-8	11.069	19.74	20.26	197410	202576
*deviation	< 10%				Sum in total:	100.00		1000000

### Important Remarks:

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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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