

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	TDA21232	**Issued**	21. August 2021
MA#	MA001785392		
Package	PG-IQFN-31-2	**Weight***	72.53 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	0.226	0.31	0.31	3113	3113
chip_2	inorganic material	silicon	7440-21-3	0.745	1.03	1.03	10269	10269
chip_3	inorganic material	silicon	7440-21-3	0.569	0.78	0.78	7848	7848
leadframe	inorganic material	phosphorus	7723-14-0	0.003			48	
	non noble metal	zinc	7440-66-6	0.014	0.02		192	
	non noble metal	iron	7439-89-6	0.279	0.38		3842	
	non noble metal	copper	7440-50-8	11.316	15.60	16.00	156013	160095
wire	non noble metal	copper	7440-50-8	0.099	0.14	0.14	1359	1359
encapsulation	organic material	carbon black	1333-86-4	0.059	0.08		818	
	plastics	epoxy resin	-	3.055	4.21		42119	
	inorganic material	silicondioxide	60676-86-0	26.546	36.62	40.91	365989	408926
leadfinish	non noble metal	tin	7440-31-5	0.986	1.36	1.36	13600	13600
plating	noble metal	silver	7440-22-4	0.054	0.07	0.07	741	741
solder	noble metal	silver	7440-22-4	0.027	0.04		374	
	non noble metal	tin	7440-31-5	0.054	0.07		748	
	non noble metal	lead	7439-92-1	1.004	1.38	1.49	13839	14961
glue	plastics	epoxy resin	-	0.088	0.12		1218	
	noble metal	silver	7440-22-4	0.265	0.37	0.49	3655	4873
heatspreader	inorganic material	phosphorus	7723-14-0	0.005	0.01		73	
	non noble metal	zinc	7440-66-6	0.021	0.03		292	
	non noble metal	iron	7439-89-6	0.424	0.58		5847	
	non noble metal	copper	7440-50-8	17.220	23.74	24.36	237412	243624
heat sink CLIP	inorganic material	phosphorus	7723-14-0	0.003			39	
	non noble metal	zinc	7440-66-6	0.011	0.02		157	
	non noble metal	iron	7439-89-6	0.227	0.31		3134	
	non noble metal	copper	7440-50-8	9.230	12.73	13.06	127261	130591
*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.

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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