



Material Content Data Sheet



Halogen-Free

Sales Product Name	IDP20E65D2	Issued	24. February 2022
MA#	MA005700346		
Package	PG-TO220-2-1	Weight*	1965.28 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	0.903	0.05	0.05	460	460
leadframe	inorganic material	phosphorus	7723-14-0	0.226	0.01		115	
	non noble metal	iron	7439-89-6	0.753	0.04		383	
	non noble metal	copper	7440-50-8	751.797	38.26	38.31	382538	383036
wire	non noble metal	aluminium	7429-90-5	6.479	0.33	0.33	3297	3297
encapsulation	organic material	carbon black	1333-86-4	5.994	0.30		3050	
	plastics	epoxy resin	-	113.880	5.79		57946	
	inorganic material	silicondioxide	60676-86-0	479.496	24.40	30.49	243984	304980
leadfinish	non noble metal	tin	7440-31-5	14.487	0.74	0.74	7371	7371
plating	inorganic material	phosphorus	7723-14-0	0.000			1	
	non noble metal	nickel	7440-02-0	0.198	0.01	0.01	101	102
solder	non noble metal	antimony	7440-36-0	0.083			42	
	noble metal	silver	7440-22-4	0.209	0.01		106	
	non noble metal	tin	7440-31-5	0.543	0.03	0.04	276	424
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		90	
	non noble metal	iron	7439-89-6	0.590	0.03		300	
	non noble metal	copper	7440-50-8	589.466	29.99	30.03	299940	300330
*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 does not use any exemption.

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