



Material Content Data Sheet



Halogen-Free

Sales Product Name	IDP20E65D2	Issued	04. May 2021
MA#	MA001171120		
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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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.

Company	Infineon Technologies AG
Address	81726 Neubiberg
Internet	www.infineon.com