



Material Content Data Sheet



Halogen-Free

Sales Product Name	IDP20C65D2	Issued	04. May 2021
MA#	MA001171084		
Package	PG-TO220-3-1	Weight*	2030.28 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	0.525	0.03	0.03	259	259
chip_2	inorganic material	silicon	7440-21-3	0.525	0.03	0.03	259	259
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		402	
	non noble metal	copper	7440-50-8	815.335	40.16	40.21	401586	402109
wire	non noble metal	aluminium	7429-90-5	3.070	0.15	0.15	1512	1512
encapsulation	organic material	carbon black	1333-86-4	5.968	0.29		2939	
	plastics	epoxy resin	-	113.391	5.58		55850	
	inorganic material	silicondioxide	60676-86-0	477.434	23.52	29.39	235157	293946
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10571	10571
plating	inorganic material	phosphorus	7723-14-0	0.001			1	
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121
solder	non noble metal	antimony	7440-36-0	0.103	0.01		51	
	noble metal	silver	7440-22-4	0.257	0.01		127	
	non noble metal	tin	7440-31-5	0.668	0.03	0.05	329	507
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		291	
	non noble metal	copper	7440-50-8	589.466	29.03	29.07	290338	290716
*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.

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