



Material Content Data Sheet



Sales Product Name		IDP20C65D2		Issued		27. September 2017		
MA#		MA001171084						
Package		PG-TO220-3-1		Weight*		2029.68 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	1.050	0.05	0.05	517	517
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	40.18	40.23	401707	402230
	non noble metal	aluminium	7429-90-5	2.467	0.12	0.12	1216	1216
wire	non noble metal	aluminium	7429-90-5	2.467	0.12	0.12	1216	1216
encapsulation	organic material	carbon black	1333-86-4	5.968	0.29		2940	
	plastics	epoxy resin	-	113.391	5.59		55866	
	inorganic material	silicondioxide	60676-86-0	477.434	23.52	29.40	235227	294033
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10574	10574
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		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	29.04	29.08	290424	290802
*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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