



Material Content Data Sheet



Sales Product Name		IPA029N06N		Issued		4. July 2019		
MA#		MA001332550						
Package		PG-TO220-3-313		Weight*		2206.66 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	2.055	0.09	0.09	931	931
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123	
	non noble metal	iron	7439-89-6	0.903	0.04		409	
	non noble metal	copper	7440-50-8	902.149	40.88	40.93	408831	409363
	non noble metal	aluminium	7429-90-5	9.863	0.45	0.45	4469	4469
wire	non noble metal	aluminium	7429-90-5	9.863	0.45	0.45	4469	4469
encapsulation	organic material	carbon black	1333-86-4	2.292	0.10		1038	
	plastics	epoxy resin	-	213.674	9.68		96832	
	inorganic material	silicondioxide	60676-86-0	919.418	41.66	51.44	416657	514527
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3570	3570
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.144	0.01		65	
	noble metal	silver	7440-22-4	0.359	0.02		163	
	non noble metal	tin	7440-31-5	0.934	0.04	0.07	423	651
heatspreader	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	iron	7439-89-6	0.145	0.01		66	
	non noble metal	copper	7440-50-8	144.874	6.57	6.58	65653	65739
*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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