



Material Content Data Sheet



Sales Product Name				IPA041N04N G		Issued		25. January 2018	
MA#				MA001847902					
Package				PG-TO220-3-313		Weight*		2225.93 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	2.247	0.10	0.10	1009	1009	
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		122		
	non noble metal	iron	7439-89-6	0.903	0.04		406		
	non noble metal	copper	7440-50-8	902.149	40.53	40.58	405291	405819	
	non noble metal	aluminium	7429-90-5	6.516	0.29	0.29	2927	2927	
wire	non noble metal	aluminium	7429-90-5	6.516	0.29	0.29	2927	2927	
encapsulation	organic material	carbon black	1333-86-4	2.338	0.10		1050		
	plastics	epoxy resin	-	217.891	9.79		97888		
	inorganic material	silicondioxide	60676-86-0	937.513	42.13	52.02	421178	520116	
leadfinish	non noble metal	tin	7440-31-5	7.877	0.35	0.35	3539	3539	
plating	non noble metal	nickel	7440-02-0	1.656	0.07	0.07	744	744	
solder	non noble metal	antimony	7440-36-0	0.150	0.01		68		
	noble metal	silver	7440-22-4	0.376	0.02		169		
	non noble metal	tin	7440-31-5	0.977	0.04	0.07	439	676	
heatspreader	inorganic material	phosphorus	7723-14-0	0.044	0.00		20		
	non noble metal	iron	7439-89-6	0.145	0.01		65		
	non noble metal	copper	7440-50-8	144.874	6.51	6.52	65085	65170	
*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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