



Material Content Data Sheet



Sales Product Name				IPA028N08N3 G		Issued		4. July 2019	
MA#				MA001332472					
Package				PG-TO220-3-313		Weight*		2203.07 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	12.294	0.56	0.56	5580	5580	
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		123		
	non noble metal	iron	7439-89-6	0.903	0.04		410		
	non noble metal	copper	7440-50-8	902.149	40.95	41.00	409498	410031	
	non noble metal	aluminium	7429-90-5	10.016	0.45	0.45	4547	4547	
wire	non noble metal	aluminium	7429-90-5	10.016	0.45	0.45	4547	4547	
encapsulation	organic material	carbon black	1333-86-4	2.321	0.11		1054		
	plastics	epoxy resin	-	210.993	9.58		95772		
	inorganic material	silicondioxide	60676-86-0	904.095	41.03	50.72	410379	507205	
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3575	3575	
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	752	752	
solder	non noble metal	antimony	7440-36-0	0.543	0.02		246		
	noble metal	silver	7440-22-4	1.357	0.06		616		
	non noble metal	tin	7440-31-5	3.528	0.16	0.24	1602	2464	
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	6.58	6.59	65760	65846	
*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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