



Material Content Data Sheet



Sales Product Name		IPA90R1K0C3		Issued		4. July 2019		
MA#		MA001371300						
Package		PG-TO220-3-313		Weight*		2206.84 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	5.558	0.25	0.25	2518	2518
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	408798	409330
	non noble metal	aluminium	7429-90-5	1.757	0.08	0.08	796	796
wire	non noble metal	aluminium	7429-90-5	1.757	0.08	0.08	796	796
encapsulation	organic material	carbon black	1333-86-4	2.313	0.10		1048	
	plastics	epoxy resin	-	214.433	9.72		97168	
	inorganic material	silicondioxide	60676-86-0	921.839	41.78	51.60	417720	515936
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3569	3569
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.302	0.01		137	
	noble metal	silver	7440-22-4	0.754	0.03		342	
	non noble metal	tin	7440-31-5	1.961	0.09	0.13	888	1367
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	6.56	6.57	65648	65734
*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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