



Material Content Data Sheet



Sales Product Name		IPA60R380P6		Issued		31. July 2018		
MA#		MA001806988						
Package		PG-TO220-3-313		Weight*		2207.77 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	4.522	0.20	0.20	2048	2048
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	40.86	40.91	408625	409157
	non noble metal	aluminium	7429-90-5	0.789	0.04	0.04	357	357
wire	non noble metal	aluminium	7429-90-5	0.789	0.04	0.04	357	357
encapsulation	organic material	carbon black	1333-86-4	2.308	0.10		1045	
	plastics	epoxy resin	-	214.936	9.74		97355	
	inorganic material	silicondioxide	60676-86-0	924.688	41.88	51.72	418834	517234
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3568	3568
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750
solder	non noble metal	antimony	7440-36-0	0.261	0.01		118	
	noble metal	silver	7440-22-4	0.652	0.03		295	
	non noble metal	tin	7440-31-5	1.694	0.08	0.12	767	1180
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	65620	65706
*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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