



Material Content Data Sheet



Sales Product Name		IPA60R099P7		Issued		31. July 2018		
MA#		MA001670490						
Package		PG-TO220-3-313		Weight*		2206.86 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	7.092	0.32	0.32	3213	3213
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	408794	409326
	non noble metal	aluminium	7429-90-5	2.920	0.13	0.13	1323	1323
wire	non noble metal	aluminium	7429-90-5	2.920	0.13	0.13	1323	1323
encapsulation	organic material	carbon black	1333-86-4	2.309	0.10		1046	
	plastics	epoxy resin	-	213.858	9.69		96906	
	inorganic material	silicondioxide	60676-86-0	919.176	41.65	51.44	416509	514461
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	0.359	0.02		163	
	noble metal	silver	7440-22-4	0.897	0.04		406	
	non noble metal	tin	7440-31-5	2.331	0.11	0.17	1056	1625
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	65647	65733
*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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