



Material Content Data Sheet



Sales Product Name				IPA60R120P7		Issued		31. July 2018	
MA#				MA001670582					
Package				PG-TO220-3-313		Weight*		2208.30 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	5.679	0.26	0.26	2572	2572	
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	40.85	40.90	408526	409058	
	non noble metal	aluminium	7429-90-5	2.937	0.13	0.13	1330	1330	
wire	non noble metal	aluminium	7429-90-5	2.937	0.13	0.13	1330	1330	
encapsulation	organic material	carbon black	1333-86-4	2.298	0.10		1041		
	plastics	epoxy resin	-	214.296	9.70		97041		
	inorganic material	silicondioxide	60676-86-0	922.125	41.77	51.57	417572	515654	
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3567	3567	
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750	
solder	non noble metal	antimony	7440-36-0	0.304	0.01		138		
	noble metal	silver	7440-22-4	0.761	0.03		345		
	non noble metal	tin	7440-31-5	1.979	0.09	0.13	896	1379	
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	65604	65690	
*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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