



## Material Content Data Sheet



<b>Sales Product Name</b>				IPA60R280E6		<b>Issued</b>		4. July 2019	
<b>MA#</b>				MA005343806					
<b>Package</b>				PG-TO220-3-313		<b>Weight*</b>		2206.75 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	5.826	0.26	0.26	2640	2640	
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	408813	409345	
	non noble metal	aluminium	7429-90-5	2.933	0.13	0.13	1329	1329	
wire	non noble metal	aluminium	7429-90-5	2.933	0.13	0.13	1329	1329	
encapsulation	organic material	carbon black	1333-86-4	2.310	0.10		1047		
	plastics	epoxy resin	-	214.136	9.70		97037		
	inorganic material	silicondioxide	60676-86-0	920.510	41.73	51.53	417134	515218	
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3570	3570	
plating	non noble metal	nickel	7440-02-0	1.656	0.08	0.08	750	750	
solder	non noble metal	antimony	7440-36-0	0.312	0.01		141		
	noble metal	silver	7440-22-4	0.779	0.04		353		
	non noble metal	tin	7440-31-5	2.025	0.09	0.14	918	1412	
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	65650	65736	
*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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