



## Material Content Data Sheet



<b>Sales Product Name</b>				IPA60R280P6		<b>Issued</b>		25. January 2018	
<b>MA#</b>				MA001727796					
<b>Package</b>				PG-TO220-3-111		<b>Weight*</b>		2262.51 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	2575	2575	
leadframe	inorganic material	phosphorus	7723-14-0	0.206	0.01		91		
	non noble metal	iron	7439-89-6	0.687	0.03		304		
	non noble metal	copper	7440-50-8	686.221	30.33	30.37	303301	303696	
	non noble metal	aluminium	7429-90-5	2.705	0.12	0.12	1196	1196	
wire	non noble metal	aluminium	7429-90-5	2.705	0.12	0.12	1196	1196	
encapsulation	organic material	carbon black	1333-86-4	2.282	0.10		1009		
	plastics	epoxy resin	-	211.480	9.35		93471		
	inorganic material	silicondioxide	60676-86-0	909.066	40.18	49.63	401795	496275	
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3510	3510	
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1		
	non noble metal	nickel	7440-02-0	0.305	0.01	0.01	135	136	
solder	non noble metal	antimony	7440-36-0	0.312	0.01		138		
	noble metal	silver	7440-22-4	0.779	0.03		344		
	non noble metal	tin	7440-31-5	2.025	0.09	0.13	895	1377	
heatspreader	inorganic material	phosphorus	7723-14-0	0.130	0.01		57		
	non noble metal	iron	7439-89-6	0.433	0.02		191		
	non noble metal	copper	7440-50-8	432.110	19.10	19.13	190987	191235	
*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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