



## Material Content Data Sheet



<b>Sales Product Name</b>				IPA50R140CP		<b>Issued</b>		25. September 2017	
<b>MA#</b>				MA001334338					
<b>Package</b>				PG-TO220-3-313		<b>Weight*</b>		2210.48 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	11.898	0.54	0.54	5382	5382	
leadframe	non noble metal	iron	7439-89-6	0.903	0.04		409		
	inorganic material	phosphorus	7723-14-0	0.271	0.01		123		
	non noble metal	copper	7440-50-8	902.149	40.82	40.87	408123	408655	
wire	non noble metal	aluminium	7429-90-5	29.621	1.34	1.34	13400	13400	
encapsulation	organic material	carbon black	1333-86-4	2.211	0.10		1000		
	plastics	epoxy resin	-	207.868	9.40		94038		
	inorganic material	silicondioxide	60676-86-0	895.603	40.52	50.02	405162	500200	
leadfinish	non noble metal	tin	7440-31-5	7.975	0.36	0.36	3608	3608	
plating	non noble metal	nickel	7440-02-0	1.676	0.08	0.08	758	758	
solder	non noble metal	antimony	7440-36-0	0.524	0.02		237		
	noble metal	silver	7440-22-4	1.310	0.06		593		
	non noble metal	tin	7440-31-5	3.406	0.15	0.23	1541	2371	
heatspreader	non noble metal	iron	7439-89-6	0.145	0.01		66		
	inorganic material	phosphorus	7723-14-0	0.044	0.00		20		
	non noble metal	copper	7440-50-8	144.874	6.55	6.56	65540	65626	
*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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