



## Material Content Data Sheet



<b>Sales Product Name</b>				IPA60R299CP		<b>Issued</b>		25. September 2017	
<b>MA#</b>				MA000410908					
<b>Package</b>				PG-TO220-3-121		<b>Weight*</b>		2250.35 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	6.215	0.28	0.28	2762	2762	
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		305		
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92		
	non noble metal	copper	7440-50-8	686.221	30.49	30.53	304940	305337	
wire	non noble metal	aluminium	7429-90-5	13.028	0.58	0.58	5789	5789	
encapsulation	organic material	carbon black	1333-86-4	2.247	0.10		999		
	plastics	epoxy resin	-	207.271	9.21		92106		
	inorganic material	silicondioxide	60676-86-0	890.275	39.57	48.88	395615	488721	
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3529	3529	
plating	non noble metal	nickel	7440-02-0	0.305	0.01		136		
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	136	
solder	non noble metal	antimony	7440-36-0	0.328	0.01		146		
	noble metal	silver	7440-22-4	0.820	0.04		364		
	non noble metal	tin	7440-31-5	2.132	0.09	0.14	947	1457	
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		192		
	inorganic material	phosphorus	7723-14-0	0.130	0.01		58		
	non noble metal	copper	7440-50-8	432.110	19.20	19.23	192019	192269	
*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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