



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R380P6		<b>Issued</b>		19. January 2018		
<b>MA#</b>		MA001346210						
<b>Package</b>		PG-TO220-3-111		<b>Weight*</b>		2240.97 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	4.522	0.20	0.20	2018	2018
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		307	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		92	
	non noble metal	copper	7440-50-8	686.221	30.62	30.66	306216	306615
wire	non noble metal	aluminium	7429-90-5	0.692	0.03	0.03	309	309
encapsulation	organic material	carbon black	1333-86-4	2.222	0.10		992	
	plastics	epoxy resin	-	207.873	9.28		92760	
	inorganic material	silicondioxide	60676-86-0	894.919	39.93	49.31	399344	493097
leadfinish	non noble metal	tin	7440-31-5	8.041	0.36	0.36	3588	3588
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	0.261	0.01		116	
	noble metal	silver	7440-22-4	0.652	0.03		291	
	non noble metal	tin	7440-31-5	1.694	0.08	0.12	756	1163
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		193	
	inorganic material	phosphorus	7723-14-0	0.130	0.01		58	
	non noble metal	copper	7440-50-8	432.110	19.28	19.31	192823	193074
*deviation	< 10%				Sum in total:	100.00		1000000

### Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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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