



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R299CP		<b>Issued</b>		20. July 2018		
<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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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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