



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R199CP		<b>Issued</b>		27. September 2017		
<b>MA#</b>		MA000375026						
<b>Package</b>		PG-TO220-3-111		<b>Weight*</b>		2268.37 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	8.809	0.39	0.39	3883	3883
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		303	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		91	
	non noble metal	copper	7440-50-8	686.221	30.25	30.29	302518	302912
wire	non noble metal	aluminium	7429-90-5	27.368	1.21	1.21	12065	12065
encapsulation	organic material	carbon black	1333-86-4	2.220	0.10		979	
	plastics	epoxy resin	-	207.011	9.13		91260	
	inorganic material	silicondioxide	60676-86-0	890.733	39.25	48.48	392674	484914
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3501	3501
plating	non noble metal	nickel	7440-02-0	0.305	0.01		134	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	134
solder	non noble metal	antimony	7440-36-0	0.420	0.02		185	
	noble metal	silver	7440-22-4	1.049	0.05		462	
	non noble metal	tin	7440-31-5	2.727	0.12	0.19	1202	1849
heatspreader	non noble metal	iron	7439-89-6	0.433	0.02		191	
	inorganic material	phosphorus	7723-14-0	0.130	0.01		57	
	non noble metal	copper	7440-50-8	432.110	19.05	19.08	190494	190742
*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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