



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA50R250CP		<b>Issued</b>		27. July 2016		
<b>MA#</b>		MA000904466						
<b>Package</b>		PG-TO220-3-111		<b>Weight*</b>		2239.97 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	7.183	0.32	0.32	3207	3207
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	30.64	30.68	306353	306752
wire	non noble metal	aluminium	7429-90-5	2.621	0.12	0.12	1170	1170
encapsulation	organic material	carbon black	1333-86-4	2.248	0.10		1004	
	plastics	epoxy resin	-	207.064	9.24		92441	
	inorganic material	silicondioxide	60676-86-0	889.191	39.69	49.03	396965	490411
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3545	3545
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	0.362	0.02		162	
	noble metal	silver	7440-22-4	0.906	0.04		405	
	non noble metal	tin	7440-31-5	2.356	0.11	0.17	1052	1619
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	19.29	19.32	192909	193160
*deviation	< 10%				Sum in total:	100.00		1000000

### Important Remarks:

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