



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R190E6		<b>Issued</b>		10. May 2016		
<b>MA#</b>		MA001108574						
<b>Package</b>		PG-TO220-3-111		<b>Weight*</b>		2262.85 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	8.148	0.36	0.36	3601	3601
leadframe	non noble metal	iron	7439-89-6	0.687	0.03		304	
	inorganic material	phosphorus	7723-14-0	0.206	0.01		91	
	non noble metal	copper	7440-50-8	686.221	30.33	30.37	303255	303650
wire	non noble metal	aluminium	7429-90-5	24.857	1.10	1.10	10985	10985
encapsulation	organic material	carbon black	1333-86-4	2.244	0.10		992	
	plastics	epoxy resin	-	206.910	9.14		91438	
	inorganic material	silicondioxide	60676-86-0	888.706	39.27	48.51	392737	485168
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3510	3510
plating	non noble metal	nickel	7440-02-0	0.305	0.01		135	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	135
solder	non noble metal	antimony	7440-36-0	0.395	0.02		175	
	noble metal	silver	7440-22-4	0.987	0.04		436	
	non noble metal	tin	7440-31-5	2.567	0.11	0.17	1134	1745
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	19.10	19.13	190958	191206
*deviation	< 10%		Sum in total:			100.00		1000000

### Important Remarks:

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