



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP60R190E6		<b>Issued</b>		20. April 2015		
<b>MA#</b>		MA001110168						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2028.48 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	0.40	0.40	4017	4017
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		402	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	copper	7440-50-8	815.335	40.18	40.23	401945	402468
wire	non noble metal	aluminium	7429-90-5	2.583	0.13	0.13	1273	1273
encapsulation	organic material	carbon black	1333-86-4	2.335	0.12		1151	
	plastics	epoxy resin	-	67.703	3.34		33376	
	inorganic material	silicondioxide	60676-86-0	513.610	25.32	28.78	253200	287727
leadfinish	non noble metal	tin	7440-31-5	21.731	1.07	1.07	10713	10713
plating	non noble metal	nickel	7440-02-0	1.786	0.09	0.09	880	880
solder	non noble metal	antimony	7440-36-0	0.395	0.02		195	
	noble metal	silver	7440-22-4	0.989	0.05		487	
	non noble metal	tin	7440-31-5	2.570	0.13	0.20	1267	1949
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		291	
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	copper	7440-50-8	589.466	29.06	29.10	290595	290973
*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 2011/65/EU (RoHS) and does not use any exemption.

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