



## Material Content Data Sheet



<b>Sales Product Name</b>				IPA65R190E6		<b>Issued</b>		16. August 2016	
<b>MA#</b>				MA001039010					
<b>Package</b>				PG-TO220-3-111		<b>Weight*</b>		2266.81 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	9.459	0.42	0.42	4173	4173	
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	30.27	30.31	302727	303121	
wire	non noble metal	aluminium	7429-90-5	25.626	1.13	1.13	11305	11305	
encapsulation	organic material	carbon black	1333-86-4	2.220	0.10		979		
	plastics	epoxy resin	-	206.885	9.13		91267		
	inorganic material	silicondioxide	60676-86-0	890.156	39.26	48.49	392691	484938	
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3503	3503	
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	0.442	0.02		195		
	noble metal	silver	7440-22-4	1.106	0.05		488		
	non noble metal	tin	7440-31-5	2.876	0.13	0.20	1269	1952	
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	19.06	19.09	190625	190873	
*deviation	< 10%			Sum in total:		100.00		1000000	

### Important Remarks:

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This product is in compliance with EU Directive 2011/65/EU (RoHS) and does not use any exemption.

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