



## Material Content Data Sheet



<b>Sales Product Name</b>				IPP65R045C7		<b>Issued</b>		24. January 2018	
<b>MA#</b>				MA001201982					
<b>Package</b>				PG-TO220-3-1		<b>Weight*</b>		2037.02 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	15.501	0.76	0.76	7610	7610	
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		401		
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120		
	non noble metal	copper	7440-50-8	815.335	40.03	40.08	400256	400778	
wire	non noble metal	aluminium	7429-90-5	8.530	0.42	0.42	4188	4188	
encapsulation	organic material	carbon black	1333-86-4	5.782	0.28		2838		
	plastics	epoxy resin	-	109.854	5.39		53929		
	inorganic material	silicondioxide	60676-86-0	462.543	22.71	28.38	227068	283835	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10536	10536	
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120		
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	120	
solder	non noble metal	antimony	7440-36-0	0.648	0.03		318		
	noble metal	silver	7440-22-4	1.619	0.08		795		
	non noble metal	tin	7440-31-5	4.210	0.21	0.32	2067	3180	
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		290		
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	copper	7440-50-8	589.466	28.94	28.98	289376	289753	
*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 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption

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