



## Material Content Data Sheet



<b>Sales Product Name</b>				IPP65R045C7		<b>Issued</b>		4. July 2019	
<b>MA#</b>				MA003783136					
<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	inorganic material	phosphorus	7723-14-0	0.245	0.01		120		
	non noble metal	iron	7439-89-6	0.816	0.04		401		
	non noble metal	copper	7440-50-8	815.335	40.03	40.08	400256	400777	
	non noble metal	aluminium	7429-90-5	8.530	0.42	0.42	4188	4188	
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	inorganic material	phosphorus	7723-14-0	0.001	0.00		1		
	non noble metal	nickel	7440-02-0	0.244	0.01	0.01	120	121	
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	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	iron	7439-89-6	0.590	0.03		290		
	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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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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