



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP65R190C6		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA001697510						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2028.79 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	0.47	0.47	4662	4662
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		402	
	non noble metal	copper	7440-50-8	815.335	40.19	40.24	401882	402405
	non noble metal	aluminium	7429-90-5	2.581	0.13	0.13	1272	1272
wire	non noble metal	aluminium	7429-90-5	2.581	0.13	0.13	1272	1272
encapsulation	organic material	carbon black	1333-86-4	2.330	0.11		1148	
	plastics	epoxy resin	-	67.566	3.33		33304	
	inorganic material	silicondioxide	60676-86-0	512.569	25.26	28.70	252648	287100
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10579	10579
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	869	869
solder	non noble metal	antimony	7440-36-0	0.443	0.02		218	
	noble metal	silver	7440-22-4	1.108	0.05		546	
	non noble metal	tin	7440-31-5	2.880	0.14	0.21	1420	2184
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	iron	7439-89-6	0.590	0.03		291	
	non noble metal	copper	7440-50-8	589.466	29.06	29.10	290551	290929
*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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