



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R360P7		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA001611342						
<b>Package</b>		PG-TO220-3-313		<b>Weight*</b>		2216.05 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	2.321	0.10	0.10	1047	1047
leadframe	inorganic material	phosphorus	7723-14-0	0.271	0.01		122	
	non noble metal	iron	7439-89-6	0.903	0.04		408	
	non noble metal	copper	7440-50-8	902.149	40.71	40.76	407098	407628
	non noble metal	aluminium	7429-90-5	0.780	0.04	0.04	352	352
wire	non noble metal	aluminium	7429-90-5	0.780	0.04	0.04	352	352
encapsulation	organic material	carbon black	1333-86-4	2.316	0.10		1045	
	plastics	epoxy resin	-	216.928	9.79		97890	
	inorganic material	silicondioxide	60676-86-0	934.120	42.15	52.04	421524	520459
leadfinish	non noble metal	tin	7440-31-5	7.877	0.36	0.36	3555	3555
plating	non noble metal	nickel	7440-02-0	1.656	0.07	0.07	747	747
solder	non noble metal	antimony	7440-36-0	0.167	0.01		75	
	noble metal	silver	7440-22-4	0.416	0.02		188	
	non noble metal	tin	7440-31-5	1.083	0.05	0.08	489	752
heatspreader	inorganic material	phosphorus	7723-14-0	0.044	0.00		20	
	non noble metal	iron	7439-89-6	0.145	0.01		65	
	non noble metal	copper	7440-50-8	144.874	6.54	6.55	65375	65460
*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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