



## Material Content Data Sheet



<b>Sales Product Name</b>		IPA60R280P6		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA001029716						
<b>Package</b>		PG-TO220-3-111		<b>Weight*</b>		2264.08 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	5.826	0.26	0.26	2573	2573
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	30.31	30.35	303091	303485
wire	non noble metal	aluminium	7429-90-5	26.002	1.15	1.15	11484	11484
encapsulation	organic material	carbon black	1333-86-4	2.241	0.10		990	
	plastics	epoxy resin	-	207.418	9.16		91612	
	inorganic material	silicondioxide	60676-86-0	891.441	39.37	48.63	393732	486335
leadfinish	non noble metal	tin	7440-31-5	7.942	0.35	0.35	3508	3508
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	0.312	0.01		138	
	noble metal	silver	7440-22-4	0.779	0.03		344	
	non noble metal	tin	7440-31-5	2.025	0.09	0.13	895	1377
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	19.09	19.12	190855	191103
*deviation	< 10%				Sum in total:	100.00		1000000

### Important Remarks:

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