



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP60R060P7		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA002063370						
<b>Package</b>		PG-TO220-3-1		<b>Weight*</b>		2034.56 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	10.430	0.51	0.51	5126	5126
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	40.09	40.14	400742	401263
	non noble metal	aluminium	7429-90-5	5.898	0.29	0.29	2899	2899
wire	non noble metal	aluminium	7429-90-5	5.898	0.29	0.29	2899	2899
encapsulation	organic material	carbon black	1333-86-4	5.851	0.29		2876	
	plastics	epoxy resin	-	111.169	5.46		54640	
	inorganic material	silicondioxide	60676-86-0	468.081	23.01	28.76	230065	287581
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10549	10549
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	0.479	0.02		236	
	noble metal	silver	7440-22-4	1.199	0.06		589	
	non noble metal	tin	7440-31-5	3.117	0.15	0.23	1532	2357
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	28.97	29.01	289727	290104
*deviation	< 10%		Sum in total:			100.00		1000000

### Important Remarks:

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