



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP60R060P7		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA002059186						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2029.57 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	5139	5139
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	401728	402251
	non noble metal	aluminium	7429-90-5	5.129	0.25	0.25	2527	2527
wire	non noble metal	aluminium	7429-90-5	5.129	0.25	0.25	2527	2527
encapsulation	organic material	carbon black	1333-86-4	2.317	0.11		1142	
	plastics	epoxy resin	-	67.205	3.31		33113	
	inorganic material	silicondioxide	60676-86-0	509.829	25.12	28.54	251201	285456
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10575	10575
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	869	869
solder	non noble metal	antimony	7440-36-0	0.480	0.02		237	
	noble metal	silver	7440-22-4	1.200	0.06		591	
	non noble metal	tin	7440-31-5	3.121	0.15	0.23	1538	2366
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	29.04	29.08	290439	290817
*deviation	< 10%		Sum in total:			100.00		1000000

### Important Remarks:

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