



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP60R280E6		<b>Issued</b>		1. August 2018		
<b>MA#</b>		MA001708826						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2027.13 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	0.29	0.29	2874	2874
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		121	
	non noble metal	iron	7439-89-6	0.816	0.04		403	
	non noble metal	copper	7440-50-8	815.335	40.20	40.25	402212	402736
	non noble metal	aluminium	7429-90-5	2.580	0.13	0.13	1273	1273
wire	non noble metal	aluminium	7429-90-5	2.580	0.13	0.13	1273	1273
encapsulation	organic material	carbon black	1333-86-4	2.343	0.12		1156	
	plastics	epoxy resin	-	67.947	3.35		33519	
	inorganic material	silicondioxide	60676-86-0	515.458	25.43	28.90	254279	288954
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10588	10588
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.312	0.02		154	
	noble metal	silver	7440-22-4	0.780	0.04		385	
	non noble metal	tin	7440-31-5	2.028	0.10	0.16	1000	1539
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	29.08	29.12	290788	291166
*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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