



## Material Content Data Sheet



<b>Sales Product Name</b>				IPP60R280CFD7		<b>Issued</b>		24. January 2018	
<b>MA#</b>				MA001721756					
<b>Package</b>				PG-TO220-3-1		<b>Weight*</b>		2030.58 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	2.932	0.14	0.14	1444	1444	
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	40.16	40.21	401527	402050	
	non noble metal	aluminium	7429-90-5	1.448	0.07	0.07	713	713	
wire	non noble metal	aluminium	7429-90-5	1.448	0.07	0.07	713	713	
encapsulation	organic material	carbon black	1333-86-4	5.959	0.29		2935		
	plastics	epoxy resin	-	113.224	5.58		55760		
	inorganic material	silicondioxide	60676-86-0	476.735	23.48	29.35	234778	293473	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10570	10570	
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	0.194	0.01		96		
	noble metal	silver	7440-22-4	0.486	0.02		239		
	non noble metal	tin	7440-31-5	1.263	0.06	0.09	622	957	
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	29.03	29.07	290294	290672	
*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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