



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP60R170CFD7		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA001714906						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2026.43 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	4.363	0.22	0.22	2153	2153
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	40.23	40.28	402350	402874
	non noble metal	aluminium	7429-90-5	2.571	0.13	0.13	1269	1269
wire	non noble metal	aluminium	7429-90-5	2.571	0.13	0.13	1269	1269
encapsulation	organic material	carbon black	1333-86-4	2.348	0.12		1159	
	plastics	epoxy resin	-	68.102	3.36		33607	
	inorganic material	silicondioxide	60676-86-0	516.635	25.49	28.97	254949	289715
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10591	10591
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.256	0.01		126	
	noble metal	silver	7440-22-4	0.639	0.03		315	
	non noble metal	tin	7440-31-5	1.661	0.08	0.12	820	1261
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	29.09	29.13	290889	291267
*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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