



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP65R420CFD		<b>Issued</b>		10. August 2018		
<b>MA#</b>		MA002262358						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2026.70 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	4.901	0.24	0.24	2418	2418
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	402296	402820
	non noble metal	aluminium	7429-90-5	2.668	0.13	0.13	1317	1317
wire	non noble metal	aluminium	7429-90-5	2.668	0.13	0.13	1317	1317
encapsulation	organic material	carbon black	1333-86-4	2.346	0.12		1158	
	plastics	epoxy resin	-	68.035	3.36		33569	
	inorganic material	silicondioxide	60676-86-0	516.128	25.47	28.95	254663	289390
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10590	10590
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.277	0.01		137	
	noble metal	silver	7440-22-4	0.693	0.03		342	
	non noble metal	tin	7440-31-5	1.801	0.09	0.13	889	1368
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	290849	291227
*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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