



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP65R110CFD		<b>Issued</b>		2. August 2018		
<b>MA#</b>		MA001701940						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2031.46 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	15.501	0.76	0.76	7630	7630
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	40.13	40.18	401353	401876
	non noble metal	aluminium	7429-90-5	2.609	0.13	0.13	1284	1284
wire	non noble metal	aluminium	7429-90-5	2.609	0.13	0.13	1284	1284
encapsulation	organic material	carbon black	1333-86-4	2.308	0.11		1136	
	plastics	epoxy resin	-	66.934	3.29		32948	
	inorganic material	silicondioxide	60676-86-0	507.771	25.00	28.40	249954	284038
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10565	10565
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	868	868
solder	non noble metal	antimony	7440-36-0	0.649	0.03		319	
	noble metal	silver	7440-22-4	1.621	0.08		798	
	non noble metal	tin	7440-31-5	4.216	0.21	0.32	2075	3192
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	29.02	29.06	290169	290547
*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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