



## Material Content Data Sheet



<b>Sales Product Name</b>		IPW65R048CFDA		<b>Issued</b>		23. January 2018		
<b>MA#</b>		MA000980696						
<b>Package</b>		PG-TO247-3-41		<b>Weight*</b>		6060.62 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	35.395	0.58	0.58	5840	5840
leadframe	inorganic material	phosphorus	7723-14-0	0.159	0.00		26	
	non noble metal	iron	7439-89-6	0.530	0.01		87	
	non noble metal	copper	7440-50-8	529.068	8.73	8.74	87296	87409
	non noble metal	aluminium	7429-90-5	11.998	0.20	0.20	1980	1980
wire	non noble metal	aluminium	7429-90-5	11.998	0.20	0.20	1980	1980
encapsulation	organic material	carbon black	1333-86-4	19.676	0.32		3247	
	plastics	epoxy resin	-	373.844	6.17		61684	
	inorganic material	silicondioxide	60676-86-0	1574.078	25.97	32.46	259722	324653
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5259	5259
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4796	4796
solder	non noble metal	antimony	7440-36-0	1.245	0.02		206	
	noble metal	silver	7440-22-4	3.114	0.05		514	
	non noble metal	tin	7440-31-5	8.095	0.13	0.20	1336	2056
heatspreader	inorganic material	phosphorus	7723-14-0	1.033	0.02		170	
	non noble metal	iron	7439-89-6	3.442	0.06		568	
	non noble metal	copper	7440-50-8	3438.006	56.73	56.81	567269	568007
*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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