



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP60R380E6		<b>Issued</b>		19. January 2018		
<b>MA#</b>		MA001704946						
<b>Package</b>		PG-TO220-3-123		<b>Weight*</b>		2026.26 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	4.522	0.22	0.22	2232	2232
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	40.25	40.30	402383	402907
	non noble metal	aluminium	7429-90-5	0.696	0.03	0.03	344	344
wire	non noble metal	aluminium	7429-90-5	0.696	0.03	0.03	344	344
encapsulation	organic material	carbon black	1333-86-4	2.354	0.12		1162	
	plastics	epoxy resin	-	68.276	3.37		33695	
	inorganic material	silicondioxide	60676-86-0	517.954	25.56	29.05	255620	290477
leadfinish	non noble metal	tin	7440-31-5	21.462	1.06	1.06	10592	10592
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	870	870
solder	non noble metal	antimony	7440-36-0	0.261	0.01		129	
	noble metal	silver	7440-22-4	0.652	0.03		322	
	non noble metal	tin	7440-31-5	1.694	0.08	0.12	836	1287
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	290913	291291
*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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