



## Material Content Data Sheet



<b>Sales Product Name</b>		IPP60R190E6		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA001108572						
<b>Package</b>		PG-TO220-3-1		<b>Weight*</b>		2035.78 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	8.148	0.40	0.40	4002	4002
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		401	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	copper	7440-50-8	815.335	40.05	40.10	400502	401024
wire	non noble metal	aluminium	7429-90-5	25.465	1.25	1.25	12509	12509
encapsulation	organic material	carbon black	1333-86-4	5.699	0.28		2799	
	plastics	epoxy resin	-	108.277	5.32		53187	
	inorganic material	silicondioxide	60676-86-0	455.902	22.39	27.99	223945	279931
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10543	10543
plating	non noble metal	nickel	7440-02-0	0.244	0.01		120	
	inorganic material	phosphorus	7723-14-0	0.001	0.00	0.01	1	120
solder	non noble metal	antimony	7440-36-0	0.395	0.02		194	
	noble metal	silver	7440-22-4	0.987	0.05		485	
	non noble metal	tin	7440-31-5	2.567	0.13	0.20	1261	1940
heatspreader	non noble metal	iron	7439-89-6	0.590	0.03		290	
	inorganic material	phosphorus	7723-14-0	0.177	0.01		87	
	non noble metal	copper	7440-50-8	589.466	28.96	29.00	289554	289931
*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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