



Material Content Data Sheet



Sales Product Name		IPP60R230P6		Issued		17. April 2015		
MA#		MA001356174						
Package		PG-TO220-3-1		Weight*		2032.87 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	6.823	0.34	0.34	3356	3356
leadframe	non noble metal	iron	7439-89-6	0.816	0.04		402	
	inorganic material	phosphorus	7723-14-0	0.245	0.01		120	
	non noble metal	copper	7440-50-8	815.335	40.10	40.15	401075	401598
wire	non noble metal	aluminium	7429-90-5	2.963	0.15	0.15	1457	1457
encapsulation	organic material	carbon black	1333-86-4	5.910	0.29		2907	
	plastics	epoxy resin	-	112.288	5.52		55236	
	inorganic material	silicondioxide	60676-86-0	472.793	23.26	29.07	232574	290717
leadfinish	non noble metal	tin	7440-31-5	21.731	1.07	1.07	10690	10690
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	0.349	0.02		172	
	noble metal	silver	7440-22-4	0.872	0.04		429	
	non noble metal	tin	7440-31-5	2.268	0.11	0.17	1116	1717
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	29.00	29.04	289968	290345
*deviation	< 10%				Sum in total:	100.00		1000000

Important Remarks:

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This product is in compliance with EU Directive 2011/65/EU (RoHS) and does not use any exemption.

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